

**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.

Part Number	Reference Designator	Component Value
8486660P01	PCB	PCB,COMP,TA02 C370 COLOR
2113743N10	C104	CAP CHIP 2.2 PF +/- .25PF COG
2113743N16	C121	CAP CHIP 3.9 PF +/- .25PF COG
2113743N16	C122	CAP CHIP 3.9 PF +/- .25PF COG
2113947B05	C131	CAP DL ARRAY 33.0PF 50V 0504
2311049A76	C133	CAP TANT CHIP 2.2UF 10% 6V
2113928C04	C134	CAP CER CHIP 4.7UF 6.3V10%0805
2113743L50	C145	CAP CHIP 33000 PF 10%
0809084T42	C150	CAP ,FILM,6800PF ,,, 50V-DC ,,CHIP
2113743L13	C151	CAP CHIP 680 PF 10% X7R
2113743L07	C152	CAP CHIP 390 PF 10% X7R
2113743L11	C153	CAP CHIP 560 PF 10% X7R
2113743L19	C154	CAP CHIP 1200 PF 10% X7R
0809084T43	C155	CAP ,FILM,8200PF ,+5%,-5%
2113743N24	C156	CAP CHIP 8.2 PF +/- .5PF COG
2113743N54	C157	CAP CHIP 150 PF 5% COG
2113743N52	C159	CAP CHIP 120 PF 5% COG
2113743N42	C160	CAP CHIP 47.0 PF 5% COG
2113743N40	C175	CAP CHIP 39.0 PF 5% COG
2113743L41	C176	CAP CHIP 10000 PF 10% X7R
2113743N40	C177	CAP CHIP 39.0 PF 5% COG
2113928P04	C178	CAP ,CER,1UF ,,+20%,-20% ,,0603
2113743N40	C179	CAP CHIP 39.0 PF 5% COG
2113743L41	C2001	CAP CHIP 10000 PF 10% X7R
2113743L41	C2002	CAP CHIP 10000 PF 10% X7R
2113743L41	C2003	CAP CHIP 10000 PF 10% X7R
2113743N40	C301	CAP CHIP 39.0 PF 5% COG
2113743N40	C302	CAP CHIP 39.0 PF 5% COG
2113743N42	C303	CAP CHIP 47.0 PF 5% COG
2113743F18	C314	CAP CHIP 2.2 UF 16V +80-20%
2113743N28	C315	CAP CHIP 12.0 PF 5% COG
2113743N40	C330	CAP CHIP 39.0 PF 5% COG
2113743N40	C331	CAP CHIP 39.0 PF 5% COG
2113743N40	C332	CAP CHIP 39.0 PF 5% COG
2113743N40	C333	CAP CHIP 39.0 PF 5% COG
2113743N40	C334	CAP CHIP 39.0 PF 5% COG
2113743N40	C335	CAP CHIP 39.0 PF 5% COG
2113928P04	C401	CAP ,CER,1UF ,,+20%,-20% ,,0603
2113928P04	C402	CAP ,CER,1UF ,,+20%,-20% ,,0603
2113928P04	C403	CAP ,CER,1UF ,,+20%,-20% ,,0603
2113928P04	C404	CAP ,CER,1UF ,,+20%,-20% ,,0603
2113743N40	C502	CAP CHIP 39.0 PF 5% COG

2113743N40	C505	CAP CHIP 39.0 PF 5% COG
2113743N40	C508	CAP CHIP 39.0 PF 5% COG
2113928C03	C602	CAP CER CHIP 1.0 UF 6.3V 10%
2113743L41	C701	CAP CHIP 10000 PF 10% X7R
2113743N38	C702	CAP CHIP 33.0 PF 5% COG
2113743L41	C705	CAP CHIP 10000 PF 10% X7R
2113928P04	C712	CAP,CER,1UF,,+20%,-20%,,0603
2113928C03	C801	CAP CER CHIP 1.0 UF 6.3V 10%
2113928C03	C802	CAP CER CHIP 1.0 UF 6.3V 10%
2113928C03	C803	CAP CER CHIP 1.0 UF 6.3V 10%
2113928C03	C805	CAP CER CHIP 1.0 UF 6.3V 10%
2113743L41	C806	CAP CHIP 10000 PF 10% X7R
2113743E20	C808	CAP CHIP .10 UF 10%
2113743E20	C809	CAP CHIP .10 UF 10%
2113928P04	C810	CAP,CER,1UF,,+20%,-20%,,0603
2113743L41	C811	CAP CHIP 10000 PF 10% X7R
2113743L41	C812	CAP CHIP 10000 PF 10% X7R
2113743L41	C813	CAP CHIP 10000 PF 10% X7R
2113928C04	C814	CAP CER CHIP 4.7UF 6.3V10%0805
2113743L41	C815	CAP CHIP 10000 PF 10% X7R
2113743L41	C816	CAP CHIP 10000 PF 10% X7R
2113743E20	C818	CAP CHIP .10 UF 10%
2113743N28	C819	CAP CHIP 12.0 PF 5% COG
2113743N40	C820	CAP CHIP 39.0 PF 5% COG
2113743E20	C821	CAP CHIP .10 UF 10%
2113743M24	C825	CAP CHIP 100000 PF +80-20% Y5V
2113743M24	C826	CAP CHIP 100000 PF +80-20% Y5V
2113928C03	C827	CAP CER CHIP 1.0 UF 6.3V 10%
2113743L41	C828	CAP CHIP 10000 PF 10% X7R
2113743M24	C834	CAP CHIP 100000 PF +80-20% Y5V
2113743L17	C835	CAP CHIP 1000 PF 10% X7R
2113743N26	C837	CAP CHIP 10.0 PF 5% COG
2113928C12	C840	CAP,CER,10UF,,+10%,-10%,,0805
2113743N28	C841	CAP CHIP 12.0 PF 5% COG
2113928C03	C890	CAP CER CHIP 1.0 UF 6.3V 10%
2113743N30	C900	CAP CHIP 15.0 PF 5% COG
2113743N30	C901	CAP CHIP 15.0 PF 5% COG
2113743N26	C902	CAP CHIP 10.0 PF 5% COG
2113743N26	C903	CAP CHIP 10.0 PF 5% COG
2113743M24	C907	CAP CHIP 100000 PF +80-20% Y5V
2113743M24	C908	CAP CHIP 100000 PF +80-20% Y5V
2113928C04	C909	CAP CER CHIP 4.7UF 6.3V10%0805
2113928C04	C910	CAP CER CHIP 4.7UF 6.3V10%0805
2113928N01	C911	CAP CER CHIP 0.1UF 10% 6.3
2113928N01	C912	CAP CER CHIP 0.1UF 10% 6.3
2113947H01	C915	CAP DL ARRAY 100,000PF 6.3V 05

2113928P04	C917	CAP,CER,1UF,,+20%,-20%,,0603
2113947B05	C919	CAP DL ARRAY 33.0PF 50V 0504
2113928C04	C921	CAP CER CHIP 4.7UF 6.3V10%0805
2113928C04	C922	CAP CER CHIP 4.7UF 6.3V10%0805
2113743L21	C926	CAP CHIP 1500 PF 10% X7R
2113743M24	C927	CAP CHIP 100000 PF +80-20% Y5V
2113743N26	C928	CAP CHIP 10.0 PF 5% COG
2113743N26	C929	CAP CHIP 10.0 PF 5% COG
2113948E11	C930	CAP,NTWK,,,+20%,-20%,10V-DC
2113743N40	C931	CAP CHIP 39.0 PF 5% COG
2113743N40	C932	CAP CHIP 39.0 PF 5% COG
2113928C04	C933	CAP CER CHIP 4.7UF 6.3V10%0805
2113928C04	C934	CAP CER CHIP 4.7UF 6.3V10%0805
2113743N40	C935	CAP CHIP 39.0 PF 5% COG
2113743N40	C936	CAP CHIP 39.0 PF 5% COG
2113743N26	C937	CAP CHIP 10.0 PF 5% COG
2113928C12	C940	CAP,CER,10UF,,+10%,-10%,,0805
2113743N40	C941	CAP CHIP 39.0 PF 5% COG
2113743L41	C942	CAP CHIP 10000 PF 10% X7R
2113743M24	C943	CAP CHIP 100000 PF +80-20% Y5V
2113928C04	C945	CAP CER CHIP 4.7UF 6.3V10%0805
2113928N01	C946	CAP CER CHIP 0.1UF 10% 6.3
2113928C12	C948	CAP,CER,10UF,,+10%,-10%,,0805
2113928C12	C949	CAP,CER,10UF,,+10%,-10%,,0805
2113928N01	C950	CAP CER CHIP 0.1UF 10% 6.3
2113928N01	C951	CAP CER CHIP 0.1UF 10% 6.3
2113743N26	C952	CAP CHIP 10.0 PF 5% COG
2113743N26	C953	CAP CHIP 10.0 PF 5% COG
4870370A26	DS502	LED ARRAY,LED,,,,,WHITE,REVER
4870370A26	DS507	LED ARRAY,LED,,,,,WHITE,REVER
6589735L01	F100	FUSE FAST 32V 2.0A 0603
9109474K05	FL130	FLTR,SAW
0988612M01	J100	CONN,RCPT,,,,RF SWITCH, SMT
0970312B16	J600	TA02-MINI-USB CONNECTOR
3970350D01	J800	CONN,,,,,SIM CARD RB
0985882K01	J900	RECPT CHRG 3POSTN SMD
0987837L04	J931	CONN JACK
2409646M81	L101	IN CER MULTILYR 10 NH 1608
2409646M82	L102	IN CER MULTILYR 12 NH 1608
2409154M40	L121	IND CER MLTILYR 22.0NH 1005
2409154M36	L151	IND CER MLTILYR 10.0NH 1005
2489970L37	L152	IDCTR,WW,270NH,2,,,,,HI_Q_160
2409154M73	L804	IND CER MLTILYR 68.0NH 1005
3986595P01	M100	BATTERY CONNECTOR,,,3-CONTACT
5987772L02	M900	MOTOR VIB 5 X 4 MM FLAT
4813824B11	Q901	TSTR PNP 30V HI BETA

4813824M28	Q903	TSTR NPN 40V .2A GEN PURP
2409646M90	R103	IN CER MULTILYR 1.8NH 1608
0662057M72	R150	RES. CHIP 820 5% 20X40
0662057M78	R151	RES. CHIP 1500 5% 20X40
0662057M67	R152	RES. CHIP 510 5% 20X40
0662057M62	R153	RES. CHIP 330 5% 20X40
0662057M64	R154	RES. CHIP 390 5% 20X40
0662057N19	R155	RES. CHIP 68K 5% 20X40
0662057M01	R305	RES. CHIP 0 5% 20X40
0687578N09	R310	THMS,,SM,,,470OHM,,3,CHIP 1005
0662057M72	R313	RES. CHIP 820 5% 20X40
0662057M52	R402	RES. CHIP 120 5% 20X40
0662057W13	R403	RES CHIP 3.3 5%
0662057M98	R503	RES. CHIP 10K 5% 20X40
0662057M78	R601	RES. CHIP 1500 5% 20X40
0609591M07	R602	RES CHIP DUAL 33 5% 0.63W
0662057M01	R706	RES. CHIP 0 5% 20X40
0662057N15	R710	RES. CHIP 47K 5% 20X40
0662057N30	R713	RES. CHIP 200K 5% 20X40
0662057N23	R714	RES. CHIP 100K 5% 20X40
0662057M92	R801	RES. CHIP 5600 5% 20X40
0662057V02	R805	RES CHIP 10K 1% 1/16W
0662057M74	R810	RES. CHIP 1000 5% 20X40
0662057N01	R901	RES CHIP 12K 5% 20X40
0662057W13	R903	RES CHIP 3.3 5%
0609591M38	R905	RES CHIP DUAL 12K 5% 0.63W
0662057N31	R906	RES. CHIP 220K 5% 20X40
0662057A22	R907	CHIP RES 75 OHMS 5%
0662057A22	R908	CHIP RES 75 OHMS 5%
0662057M74	R909	RES. CHIP 1000 5% 20X40
0662057M98	R910	RES. CHIP 10K 5% 20X40
0662057M90	R911	RES. CHIP 4700 5% 20X40
0662057N32	R912	RES. CHIP 240K 5% 20X40
0662057A47	R913	CHIP RES 820 OHMS 5%
0662057A51	R914	CHIP RES 1200 OHMS 5%
0662057M90	R916	RES. CHIP 4700 5% 20X40
0662057M46	R918	RES. CHIP 68 5% 20X40
0662057N15	R920	RES. CHIP 47K 5% 20X40
0662057N15	R921	RES. CHIP 47K 5% 20X40
0662057M98	R931	RES. CHIP 10K 5% 20X40
0662057M98	R948	RES. CHIP 10K 5% 20X40
0660076S01	R968	RES CHIP O OHM
0685660C01	RT900	THERMISTOR 3% 0402
2689851L01	SH100	SHIELD ,SURFACE MOUNT SOLDERED
2689852L01	SH200	SHIELD ,SURFACE MOUNT SOLDERED
2689853L01	SH300	SHIELD,SURFACE MOUNT SOLDERED

2686610P01	SH400	SHIELD,SURFACE MOUNT SOLDERED,
5109923D60	U150	IC,,,,,,,,, SIGE, ALGAE, 48PIN
5189227L08	U300	IC,AMP,,,,,,,,,ATHENA 850/PCS
5187970L20	U400	IC,,,,,,,,,QUAD LED DRIVER
5187970L15	U600	IC USB TRANS FULL-SPEED
5199491A01	U701	IC FLASH 64MBIT 56UBGA
5109509A48	U705	IC,SRAM,,8M,512KX16,70,,FBGA48
5199109K04	U800	IC,CUST,,,,,,,,,PROG BGA NEPTUNE
5109879E84	U900	IC,,,,,BGA,,,SEAWEED 81 MAP
4889526L03	U902	IPD ESD FLTR 2CH 1X1.4MM 5CSP
5187970L26	U920	IC,,,,,BGA
4805656W03	VR888	DIODE DUAL 5.6V ZENER
4805656W03	VR902	DIODE DUAL 5.6V ZENER
4809788E06	VR904	DIODE ZENER 6.8V UDZ6.8B
4809995L14	Y900	XTAL 32KHZ 20PPM 7X1.5MM LEADS
4809612J43	Y901	XTAL 26MHZ 10PPM 5X3.2MM SMD