

TRANSCIVER 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.

Kit	PCB	Ver
FCN5538C	8489082V01	C
Sym	P/N	Description
C100	2113944A40	CAP CER CHP 100.0PF 50V 5%
C151	2113946B04	CAP CER CHP 0.10UF 10V 10%
C152	2113944A32	CAP CER CHP 39.0PF 50V 5%
C153	2113946B04	CAP CER CHP 0.10UF 10V 10%
C154	2113946B04	CAP CER CHP 0.10UF 10V 10%
C155	2113946D07	CAP,CHIP,4.7UF,,+10%,-10%,6.3V-DC,0
C156	2113946B04	CAP CER CHP 0.10UF 10V 10%
C159	2113944A32	CAP CER CHP 39.0PF 50V 5%
C160	2113944A40	CAP CER CHP 100.0PF 50V 5%
C161	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C162	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C201	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,
C202	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,
C203	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,
C204	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C205	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,
C206	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C209	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,
C210	2113946B02	CAP CER CHP 0.047UF 10V 10%
C211	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C212	2113946B02	CAP CER CHP 0.047UF 10V 10%
C213	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,
C214	2113946B04	CAP CER CHP 0.10UF 10V 10%
C215	2113944A10	CAP CER CHP 2.4PF 50V +/- 0.25PF
C216	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C220	2113944A32	CAP CER CHP 39.0PF 50V 5%
C221	2113743N22	CAP CHIP 6.8 PF + -.5PF COG
C222	2113944A17	CAP CER CHP 4.7PF 50V +/- 0.25PF
C230	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C232	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C233	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C251	2113945B02	CAP CER CHP 10,000PF 25V 10%
C255	2113945A09	CAP CER CHP 1000PF 50V 10%
C270	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,
C275	2113944A40	CAP CER CHP 100.0PF 50V 5%
C51	2113946D07	CAP,CHIP,4.7UF,,+10%,-10%,6.3V-DC,0
C52	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C53	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C54	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C55	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C56	2113944A18	CAP CER CHP 5.1PF 50V +/- 0.5PF
C57	2113944A11	CAP CER CHP 2.7PF 50V +/- 0.25PF
C60	2113944A08	CAP CER CHP 2.0PF 50V +/- 0.25PF
C61	2113743N02	CAP CHIP 0.75 PF +/- .25PF COG

C63	2488090Y06	IDCTR,CHIP,2.7NH,5%,300MA,,CER,,,,,SM,,0402,MULAY PB FREE
C64	2113743N03	CAP CHIP 1.0 PF +/- .25PF COG
C70	2409154M04	FIXED INDUCTOR,CHIP,1.8NH,,,,14OHM,
C700	2113946B04	CAP CER CHP 0.10UF 10V 10%
C701	2113946B04	CAP CER CHP 0.10UF 10V 10%
C702	2113945B02	CAP CER CHP 10,000PF 25V 10%
C703	2113945B02	CAP CER CHP 10,000PF 25V 10%
C72	2113944A05	CAP CER CHP 1.5PF 50V 0.25PF
C804	2113945A09	CAP CER CHP 1000PF 50V 10%
C806	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
C807	2113946B04	CAP CER CHP 0.10UF 10V 10%
C808	2113946B04	CAP CER CHP 0.10UF 10V 10%
C81	2113944A32	CAP CER CHP 39.0PF 50V 5%
C810	2113946D07	CAP,CHIP,4.7UF,,+10%,-10%,6.3V-DC,0
C811	2113946B04	CAP CER CHP 0.10UF 10V 10%
C812	2113946B04	CAP CER CHP 0.10UF 10V 10%
C813	2187893N01	CAP,,1UF,,+20%,-20%,6.3V-DC,0402,,-
C815	2113946B04	CAP CER CHP 0.10UF 10V 10%
C816	2113946B04	CAP CER CHP 0.10UF 10V 10%
C817	2113945B02	CAP CER CHP 10,000PF 25V 10%
C82	2113944A29	CAP CER CHP 22.0PF 50V 5%
C824	2113946B04	CAP CER CHP 0.10UF 10V 10%
C828	2113946B04	CAP CER CHP 0.10UF 10V 10%
C829	2113946B04	CAP CER CHP 0.10UF 10V 10%
C83	2113944A29	CAP CER CHP 22.0PF 50V 5%
C840	2113946B04	CAP CER CHP 0.10UF 10V 10%
C842	2113944A32	CAP CER CHP 39.0PF 50V 5%
C85	2113944A32	CAP CER CHP 39.0PF 50V 5%
C850	2113945B02	CAP CER CHP 10,000PF 25V 10%
C86	2113944A32	CAP CER CHP 39.0PF 50V 5%
C87	2113944A32	CAP CER CHP 39.0PF 50V 5%
C901	2113946D02	CAP CER CHP 1.0UF 6.3V 10%
C902	2113946B04	CAP CER CHP 0.10UF 10V 10%
C903	2113946D02	CAP CER CHP 1.0UF 6.3V 10%
C904	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA
C905	2188155V01	CAP,CERAMIC CHIP,10UF,,+10%,-10%,10V-DC,0805,- 40/C TO +85/C,-40D
C906	2113946B04	CAP CER CHP 0.10UF 10V 10%
C907	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA
C908	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA
C909	2113944A32	CAP CER CHP 39.0PF 50V 5%
C910	2113946D07	CAP,CHIP,4.7UF,,+10%,-10%,6.3V-DC,0
C911	2113946D02	CAP CER CHP 1.0UF 6.3V 10%
C912	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA

C913	2113946F08	CAP,CHIP,22UF,,+20%,-20%,6.3V-DC,0805,X5R,-55DEG CMIN,85DEG CMAX
C914	2113946F08	CAP,CHIP,22UF,,+20%,-20%,6.3V-DC,0805,X5R,-55DEG CMIN,85DEG CMAX
C915	2113945A10	CAP CER CHP 1500PF 50V 10%
C916	2113946B04	CAP CER CHP 0.10UF 10V 10%
C917	2113946B04	CAP CER CHP 0.10UF 10V 10%
C918	2113946B04	CAP CER CHP 0.10UF 10V 10%
C919	2113945B02	CAP CER CHP 10,000PF 25V 10%
C920	2113946D02	CAP CER CHP 1.0UF 6.3V 10%
C921	2113946B04	CAP CER CHP 0.10UF 10V 10%
C922	2113944A24	CAP CER CHP 9.1PF 50V +/- 0.5PF
C923	2113944A24	CAP CER CHP 9.1PF 50V +/- 0.5PF
C924	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA
C925	2113946D02	CAP CER CHP 1.0UF 6.3V 10%
C926	2113946B04	CAP CER CHP 0.10UF 10V 10%
C927	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA
C931	2113944A32	CAP CER CHP 39.0PF 50V 5%
C933	2113944A27	CAP CER CHP 15.0PF 50V 5%
C935	2113944A32	CAP CER CHP 39.0PF 50V 5%
C936	2113944A27	CAP CER CHP 15.0PF 50V 5%
C937	2113944A32	CAP CER CHP 39.0PF 50V 5%
C938	2113944A32	CAP CER CHP 39.0PF 50V 5%
C939	2113946F08	CAP,CHIP,22UF,,+20%,-20%,6.3V-DC,0805,X5R,-55DEG CMIN,85DEG CMAX
C940	2113946D07	CAP,CHIP,4.7UF,,+10%,-10%,6.3V-DC,0
C941	2113944A32	CAP CER CHP 39.0PF 50V 5%
C942	2113946B04	CAP CER CHP 0.10UF 10V 10%
C943	2113944A32	CAP CER CHP 39.0PF 50V 5%
C945	2113946B04	CAP CER CHP 0.10UF 10V 10%
C946	2113944A32	CAP CER CHP 39.0PF 50V 5%
C947	2113944A32	CAP CER CHP 39.0PF 50V 5%
C948	2113944A32	CAP CER CHP 39.0PF 50V 5%
C95	2113944A32	CAP CER CHP 39.0PF 50V 5%
C950	2188155V01	CAP,CERAMIC CHIP,10UF,,+10%,-10%,10V-DC,0805,-40/C TO +85/C,-40D
C952	2113944A32	CAP CER CHP 39.0PF 50V 5%
C955	2113945B02	CAP CER CHP 10,000PF 25V 10%
C960	2113946D07	CAP,CHIP,4.7UF,,+10%,-10%,6.3V-DC,0
C961	2113944A32	CAP CER CHP 39.0PF 50V 5%
C962	2113944A32	CAP CER CHP 39.0PF 50V 5%
C963	2113944A32	CAP CER CHP 39.0PF 50V 5%
C965	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA
C966	2113946D05	CAP,CHIP,2.2UF,,+10%,-10%,6.3V-DC,0603,X5R,-55DEG CMIN,85DEG CMA
D701	4809924D29	DIODE,SWG,BAS52-02V,SM,,500MA,30V,.06W,SHTK,LOW LEAKAGE, SC79, W

D702	4809924D29	DIODE,SWG,BAS52-02V,SM,,500MA,30V,.06W,SHTK,LOW LEAKAGE, SC79, W
D901	4809924D29	DIODE,SWG,BAS52-02V,SM,,500MA,30V,.06W,SHTK,LOW LEAKAGE, SC79, W
D902	4809924D29	DIODE,SWG,BAS52-02V,SM,,500MA,30V,.06W,SHTK,LOW LEAKAGE, SC79, W
D903	4809924D29	DIODE,SWG,BAS52-02V,SM,,500MA,30V,.06W,SHTK,LOW LEAKAGE, SC79, W
D905	4809653F10	DIODE, 1 AMP SCHOTTKY, MBRM120ET3, POWERMITE, SMD, W18 COMPLIANT
E50	2480675U01	0805 CHIP-3AMP
FL100	9188668L05	FLTR,SAW,,,,,SM,,881/942/1842/1960
J1	0987582U01	B-T-B 70PIN 0.5MM SMD STR
J2	0987925V02	RF CONNECTOR,MMCX,F,RIGHT ANGLE,PCMT
J3	0986204J06	CONN,,RCPT,10CONT,,PCB,,CONN FOR SE
L100	2488090Y24	INDUCTOR,MULTILAYER,82NH,1005,SMD,PB FREE
L154	2488090Y24	INDUCTOR,MULTILAYER,82NH,1005,SMD,PB FREE
L202	2488090Y24	INDUCTOR,MULTILAYER,82NH,1005,SMD,PB FREE
L215	2488090Y20	IDCTR,CHIP,39NH,5,200MA,,CER,,,,,S
L220	2488090Y06	IDCTR,CHIP,2.7NH,5%,300MA,,CER,,,,,SM,,0402,MULAY PB FREE
L61	2488090Y07	IDCTR,CHIP,3.3NH,5%,300MA,,CER,,,,,SM,,0402,MULAY PB FREE
L840	2488090Y24	INDUCTOR,MULTILAYER,82NH,1005,SMD,PB FREE
L901	2588079Y03	IDCTR,WW,10UH,20,740MA,.24OHM,FERR,
L902	2590031N04	IDCTR,PWR,4.7UH,20,,,,,,,,,SM,,,3 X 2.8 X 1.2
L905	2488090Y24	INDUCTOR,MULTILAYER,82NH,1005,SMD,PB FREE
L906	2488090Y24	INDUCTOR,MULTILAYER,82NH,1005,SMD,PB FREE
L92	2488090Y20	IDCTR,CHIP,39NH,5,200MA,,CER,,,,,S
L931	2488090Y20	IDCTR,CHIP,39NH,5,200MA,,CER,,,,,S
L933	2488090Y20	IDCTR,CHIP,39NH,5,200MA,,CER,,,,,S
L935	2488090Y20	IDCTR,CHIP,39NH,5,200MA,,CER,,,,,S
L936	2488090Y20	IDCTR,CHIP,39NH,5,200MA,,CER,,,,,S
L940	2488090Y20	IDCTR,CHIP,39NH,5,200MA,,CER,,,,,S
L950	2488090Y24	INDUCTOR,MULTILAYER,82NH,1005,SMD,PB FREE
L990	2409377M17	IDCTR,CHIP,100NH,5%,400MA,.58OHM,SM
Q250	4809579E72	XSTR,FET GEN PURPOSE SMALL SIG,MOSFET,N AND P,,,SC70-6,,,,,INTE

Q260	4809579E72	XSTR,FET GEN PURPOSE SMALL SIG,MOSFET,N AND P,,,SC70-6,,,,,INTE
Q910	4805585Q23	XSTR,FET GEN PURP,PB-FREE
Q920	4805585Q23	XSTR,FET GEN PURP,PB-FREE
Q940	4805585Q23	XSTR,FET GEN PURP,PB-FREE
Q950	4809579E73	XSTR,FET GP PWR,MOSFET,P-CH,ENHN,FDZ206PN_L,SM,BGA,,, -20V,.3W,,4
R155	0613952R11	CER CHIP RES 27K OHM 5% 0402
R156	0613952Q08	CER CHIP RES 2.0 OHM 5% 0402
R160	0613952Q75	CER CHIP RES 1200 OHM 5% 0402
R161	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R162	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R201	0613952Q25	CER CHIP RES 10.0 OHM 5% 0402
R202	0613952Q27	CER CHIP RES 12.0 OHM 5% 0402
R203	0613952R25	CER CHIP RES 100K OHM 5% 0402
R204	0613952R66	CER CHIP RES 0.0 OHM 5% 0402
R205	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R206	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R232	0613952M46	CER CHIP RES 2940 OHM 1% 0402
R233	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R250	0613952R43	RES,MO,560000OHM,5%,.0625W,SMD,0402,1005,200PPM
R260	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R262	0613952R41	CER CHIP RES 470K OHM 5% 0402
R265	0613952R41	CER CHIP RES 470K OHM 5% 0402
R266	0613952R17	CER CHIP RES 47K OHM 5% 0402
R270	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R56	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R57	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R70	2113944A17	CAP CER CHP 4.7PF 50V +/- 0.5PF
R702	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R705	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R71	2488090Y07	IDCTR,CHIP,3.3NH,5%,300MA,,CER,,,,,SM,,0402,MULAY PB FREE
R805	0613952R01	CER CHIP RES 10K OHM 5% 0402
R806	0613952R01	CER CHIP RES 10K OHM 5% 0402
R807	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R808	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R810	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R811	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R814	0613952Q91	CER CHIP RES 5600 OHM 5% 0402
R815	0613952Q91	CER CHIP RES 5600 OHM 5% 0402
R816	0613952Q91	CER CHIP RES 5600 OHM 5% 0402
R817	0613952R17	CER CHIP RES 47K OHM 5% 0402
R825	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R827	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R829	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM

R830	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R831	0613952Q45	CER CHIP RES 68.0 OHM 5% 0402
R832	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R833	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R835	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R841	0613952R35	CER CHIP RES 270K OHM 5% 0402
R844	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R850	0613952R17	CER CHIP RES 47K OHM 5% 0402
R900	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R902	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R903	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R904	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R906	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R907	0613952R16	CER CHIP RES 43K OHM 5% 0402
R909	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R910	0687874L02	RES,MF,.1OHM,5%,.2W,SM,0603,200PPM/
R911	0688044N02	RES,METAL STRIP,.02OHM,1%,.125W,SMD
R912	0687874L02	RES,MF,.1OHM,5%,.2W,SM,0603,200PPM/
R913	0687874L02	RES,MF,.1OHM,5%,.2W,SM,0603,200PPM/
R914	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R915	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R916	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R920	0613952Q33	CER CHIP RES 22.0 OHM 5% 0402
R921	0613952Q33	CER CHIP RES 22.0 OHM 5% 0402
R922	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R938	0613952Q81	CER CHIP RES 2200 OHM 5% 0402
R940	0613952Q81	CER CHIP RES 2200 OHM 5% 0402
R941	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R942	0613952Q81	CER CHIP RES 2200 OHM 5% 0402
R943	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R945	0613952Q81	CER CHIP RES 2200 OHM 5% 0402
R952	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R953	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R965	0613952Q01	CER CHIP RES 1.0 OHM 5% 0402
R966	0613952Q01	CER CHIP RES 1.0 OHM 5% 0402
R970	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R971	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R972	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R973	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R974	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R975	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R976	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R977	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R978	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM

SH1	2687523V06	SHIELD,SM SLDRD,,22.08MMLG,20.18MMW
SH2	2687523V04	SHIELD,SM SLDRD,,27.17MMLG,26.62MMW
SH3	2687523V03	SHIELD,SM SLDRD,,23.27MMLG,15.47MMW
SH4	2687523V01	SHIELD,SM SLDRD,,28.03MMLG,26.53MMW
U150	5188450M19	IC,CUST,,,,,,BICMOS, SIGE, GSM/EDG
U200	5188450M31	IC,CUSTOM,,,1PER PKG,SM,,,SI CMOS R
U250	5114007M46	IC,INVTR,,,1PER PKG,SOT-353,,,PB-FREE
U50	5189789N02	GMSK/EDGE (850-900-1800-1900MHZ) POWER AMP. MODULE (E24)
U60	5887694L06	ATTEN 50 OHM 3 DB 1X1MM SMD
U70	0662057U37	RES CHIP 27 1% 1/16W
U700	5199159J01	IC,FLSH,PSRAM STACK,256MBIT,,84NS,B
U80	4889695L20	SW,,,,,,1PER PKG,,,,MODULE, QUAD BN
U800	5199185K02	IC NEPTUNE LTE2 ROM 1.1.3 DEVELOPMENT SECURITY
U810	5164751E03	IC,BFR,,MC74VHC1GT50,N-I,,,,SOT-353
U820	5114000A50	IC,NAND,,1G00,1PER PKG,SOT-353,,,PB FREE
U830	5114007M34	IC,INVTR,,,1PER PKG,SM,SOT-353,,,PB-FREE
U840	5109817F77	IC,COMPTR,LMV7275,,SC70-5
U850	5164751E03	IC,BFR,,MC74VHC1GT50,N-I,,,,SOT-353
U900	5188450M32	IC,CUST,,,,BGA,,,ATLAS ULTRALITE
U901	4813973M77	XSTR,BIP GP SS,,PNP,MBT35200,TSOP,,,,-35V,, 2A,100MHZ,PB FREE
Y250	4809718L22	OSC,TCXO,26MHZ,SM,,,,,3.2X2.5X1.2 M
Y900	4809995L13	XTAL 32.768KHZ 30PPM 1.5X4.1MM