

**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
R202, R203, R210, R323, R340	06-00026-01	RES 000 5% / ERJ2GE0R00X
R370	06-00035-01	RES 0.15 ohm (1608) 1% / ERJ3RSFR15V
R116, R118, R155, R422, R423, R426, R427	06-01026-01	RES 10 5%/ ERJ2GEJ100X
R103	06-02426-01	RES 24 5%/ ERJ2GEJ240X
R104, R300, R303	06-03326-01	RES 33 5%/ ERJ2GEJ330X
R117	06-05126-01	RES 51 5%/ ERJ2GEJ510X
R315	06-08226-01	RES 82 5% / MCR01MZS 820J
R100, R105, R120, R121, R128, R225, R311, R418, R419, R420, R421, R424, R425	06-11026-01	RES 100 5%/ ERJ2GEJ101X
R320	06-11226-01	RES 120 5% / MCR01MZS 121J
R321, R403, R404, R407, R408, R411, R412 R415, R416	06-11526-01	RES 150 5% / ERJ2GEJ151X
R371	06-13326-01	RES 330 5% / ERJ2GEJ331X
R227, R402, R405, R406, R409, R410, R413, R414, R417	06-14726-01	RES 470 5%/ ERJ2GEJ471X
R111, R112, R115, R119, R125, R132, R223, R224, R232, R233, R322	06-21026-01	RES 1K 5%/ ERJ2GEJ102X
R301	06-21526-01	RES 1.5K 5%/ ERJ2GEJ152X
R129	06-21826-01	RES 1.8K 5%/ ERJ2GEJ182X
R127, R216, R218	06-22226-01	RES 2.2K 5%/ ERJ2GEJ222X
R212	06-23326-01	RES 3.3K 5% / MCR01MZS332J
R136	06-23926-01	RES 3.9K 5%/ ERJ2GEJ392X
R126, R316	06-24726-01	RES 4.7K 5%/ ERJ2GEJ472X
R108, R109, R110	06-25725-02	RES 5.76K 1% / ERJ2RKF5761X
R306	06-28825-01	RES 8.87k 1% / ERJ2RKF8871X
R102, R130, R139, R140, R205, R207, R208, R214, R304, R308, R325, R400, R401, R428, R429, R430, R431, R432, R463,	06-31026-01	RES 10K 5%/ ERJ2GEJ103X
R319	06-31025-01	RES 10K 1% / ERJ2RKF1002X
R114, R137	06-31125-02	RES(1005) 11.3K 1%/ ERJ2RKF1132X
R318	06-31526-01	RES 15K 5% / ERJ2GEJ153X
R201	06-32026-01	RES 20K 5%/ ERJ2GEJ203X
R302	06-32726-01	RES 27K 5%/ ERJ2GEJ273X
R200	06-33026-01	RES 30K 5% / MCR01MZS 303J

R122, R138, R213	06-34726-01	RES 47K 5%/ ERJ2GEJ473X
R211	06-35625-01	RES 56K 1% / ERJ2RKF563X
R101, R305, R307, R372	06-41026-01	RES 100K 5%/ ERJ2GEJ104X
R204, R209	06-41826-01	RES 180K 5%/ ERJ2GEJ184X
R215	06-43025-01	RES 300K 1% / ERJ2RKF304X
R151, R152	06-44726-01	RES 470K 5% / MCR01MZS 474J
R206	06-45126-01	RES 510K 5%/ ERJ2GEJ514X
C150, C171	21-00022-03	CAP (1005) 0.5PF +/-0.25PF/ GRM 36 C0G 0R5 C50
C149	21-00122-01	CAP 1PF +/- 0.25PF / C1005CH1H010C
C83, C200	21-00322-01	CAP 3PF +/- 0.25PF/ GRM 36 C0G 030 C50
C19, C27	21-00422-01	CAP 4PF +/- 0.25PF/ GRM 36 C0G 040 C50
C36, C37	21-00722-01	CAP(1005) 7PF +/- 0.25PF / CL05C070CBNC
C183	21-00823-01	CAP 8P +/-0.5P / C1005CH1H080D/CL05C080DBNC
C69	21-01023-01	CAP 10PF +/- 0.5PF/ GRM 36 C0G 100 D50
C228, C229, C317, C318	21-01826-01	CAP 18PF +/- 5%/ GRM 36 C0G 180 J50
C218, C225, C226, C230, C336, C338	21-03326-01	CAP 33PF +/- 5% / GRM 36 C0G 330 J50
C9, C11, C14, C15, C21, C26, C31, C34, C35, C40, C43, C44, C45, C51, C53, C54, C68, C78, C105, C106, C146	21-04726-01	CAP 47PF +/- 5% / GRM 36 C0G 470 J50
C5, C6, C7, C25, C32, C46, C64, C84, C85, C97, C98, C99, C260, C262, C263, C264, C267, C271, C374	21-11026-01	CAP 100PF +/- 5% / GRM 36 C0G 101 J50
C87, C89	21-12026-02	CAP(1005) 200PF +/- 5% / GRM 36 C0H 201 J25
C94	21-12226-02	CAP(1005) 220PF +/- 5% / GRM 36 C0G 221 J50
C70	21-13327-01	CAP 330PF +/- 10% / GRM 36 X7R 331 K50
C82, C104	21-14727-01	CAP 470PF +/- 10% / GRM 36 X7R 471 K50
C39, C72, C81, C92, C96, C103, C219, C223, C227, C231, C233, C235, C256, C370, C410	21-21027-01	CAP 1000PF +/- 10% / GRM 36 X7R 102 K50
C86	21-22227-01	CAP 2200PF +/- 10% / GRM 36 X7R 222 K50
C93, C315	21-24727-01	CAP 4700PF +/- 10% / GRM 36 X7R 472 K50
C91	21-25627-03	CAP(1005) 5600PF +/- 10% / GRM 36 X7R 562 K25
C57, C60, C100, C101, C208, C209, C234, C236, C239, C241, C246, C248, C249, C252, C253, C312, C325	21-31027-01	CAP 0.01uF +/- 10% / GRM 36 X7R 103 K16
C216, C220, C221, C224	21-32227-01	CAP 0.022uF +/- 10% / GRM 36 X7R 223 K16
C88	21-36837-01	CAP 0.068uF(1608) +/- 10% / GRM 39 X7R 683 K16
C90	21-38238-02	CAP 0.082uF (1608) +/- 10% / GRM 39 X7R 823 K16

C3, C4, C8, C12, C18, C20, C23, C30, C41, C42, C56, C58, C61, C66, C73, C77, C102, C148, C169, C202, C203, C206, C207, C210, C211, C212, C213, C214, C232, C238, C240, C242, C243, C244, C245, C247, C250, C251, C255, C300, C301, C304, C305, C313, C316, C319, C322, C337, C375, C400	21-41027-01	CAP(1005) 0.1uF +/- 10% / GRM 36 X5R 104 K10
C55	21-00428-01	CAP 0.47uF 80/- 20% / GRM 36 Y5V 474 Z10
C237	21-40638-01	CAP 0.68uF 80/- 20% / GRM 36 Y5V 684 Z6.3
C65, C215, C217, C254, C272, C320, C323, C326, C327, C333, C334, C335, C339	21-51028-03	CAP(1005) 1uF 80/- 20% / GRM 36 Y5V 105 Z10
C201, C205, C302, C303, C372, C404	21-51038-03	CAP 1uF (1608) 80/- 20% / GRM 39 Y5V 105 Z10
C403	21-52237-01	CAP 2.2uF (1608) +/- 10% / GRM 39 X5R 225 K6.3
C329, C330	21-52248-04	CAP 2.2uF (2012) 80/- 20% / GRM 40 Y5V 225 Z10
C74, C331, C332	21-04747-02	CAP 4.7uF (2012) +80/- 20% / GRM 40 Y5V 475 Z10
C59, C71, C95, C270, C328	21-61048-03	CAP 10uF (2012) 80/- 20% / GRM 225 Y5V 106 Z10
C222, C314, C373	21-62258-03	CAP 22uF (3216) 80/- 20% / GRM 230 Y5V 226 Z10
C371	21-64768-01	CAP 47uF (3225) 80/- 20% / GRM 235 Y5V 476 Z10
AR200, AR201, AR202	21-11047-01	ARRAY CAP 100PF(2012) +/- 10% / ECJTVC1H101K
C141	21-61008-01	TANTAL 10UF 6.3V +/-20% / TA-6R3TCML100M-PR
L131	24-00102-02	IND 1.2NH +/-0.3NH / LL1005-FH1N2S
L110	24-00102-03	IND 1.5NH +/-0.3NH / LL1005-FH1N5S
L111, L126, L139, L180	24-00202-01	IND 2.2NH +/-0.3NH / LL1005-FH2N2S
L106, L136	24-00402-01	IND 4.7NH +/-0.3NH / LL1005-FH4N7S
L140	24-00502-01	IND 5.6NH +/-0.3NH / LL1005-FH5N6S
L102, L104, L109, L113, L127	24-00806-02	IND 8.2NH 5% / LL1005-FH8N2J
L105, L108, L134	24-01006-02	IND 10NH 5% / LL1005-FH10Nj
L112	24-01806-02	IND 18NH 5% / LL1005-FH18NJ
L100, L101, L114, L115	24-03306-01	IND 33NH 5% / LL1005-FH33NJ
L103, L107, L300	24-08206-05	IND 82NH 5% / LL1005-FH82NJ
L130	24-11026-02	IND(1005) 100NH 5% / LLV1005-FBR10J
CON100	09-00147-01	RF CONN / MS-147
EAR200	09-02018-01	EARPHONE JACK / HSJ2018-019070
CN300	09-44522-01	IO CONN(17PIN) / 44522-0079

CN200	09-73014-01	FPC CONN (30PIN) / AXK730145J
MIC200	15-32000-04	HOLDER-MIC / GCC R-UIM
BF200, BF201, BF202	24-11206-04	IND BEAD 120 (OHM) / HB-1M1005-121JT
RECORD	40-00010-01	PUSH SW (SIDE) / LS10N2-T
SW1	40-00489-01	HIGH POWER SWITCH(2.5V,SP3T) / MASWSS0060TR
IC402	40-00766-02	ANALOG SWITCH (SPST) / NC7SZ66
IC106	40-03865-01	PAM ON SWITCH / SI3865DV-T1
IC108	40-17992-01	BAND SELECTION SWITCH(SPDT) / AS179-92
SW400	40-31040-01	MULTI CONTROL SWITCH / SLLB310400
IC105,IC109	48-00005-01	TR / UMC5NTR
IQ101	48-00012-12	ESD DIODE / V12
IQ100	48-00052-01	ESD DIODE / V05A2
D400, D401, D402, D403, D404, D405, D406, D407	48-00068-03	DIODE(ESD) / RSB6.8G
Q201	48-00114-01	TR / DTA114EMA
Q401	48-00114-10	TR / DTC114TMT2L
Q200	48-00115-06	TR / DTC115TMT2L
Q402	48-00143-04	TR / DTC143TMT2L
Q100	48-00144-09	TR / DTC144TMT2L
LED408, LED409, LED410, LED411, LED412, LED413, LED414, LED415, LED416, LED417	48-00192-01	LED / LTST-C192TBKT / AOT-0603P-B01-V / LNJ914W8BRAW
Y301	48-00255-01	FC-255 32.768KHz 9PF / FC-255(Q13F2550000300)
D300, D301	48-00715-01	DIODE / RB715FT106
LED400, LED401, LED402, LED403, LED404, LED405, LED406, LED407	48-01238-01	LED(BLUE / RED) / LNJ123W8HRA
TCXO100	48-03043-01	TCXO / MTE3043D 19.2MHZ
Y200	48-03225-01	CRYSTAL 48MHz / TSX-3225
Q400	48-06401-01	FET / IRLML6401
IC306	48-13443-01	FET / SI3443DV
Q303	48-23220-01	TR / ZXT2M322
VCO100	48-30017-01	VCO(D/C) / MQK300B1G75R6
IC112, IC113	51-00021-02	POWER DETECTOR IC / STPAC02F1
IC401	51-00331-01	IC/R1111N331B-TR
IC305	51-01102-01	IC (USB TRANSCEIVER) / ISP1102
IC202	51-02890-02	AUDIO AMP IC / NCP2890AFCT1
IC206	51-03212-01	HALL SENSOR IC / A3212ELH
IC201	51-05702-01	MCP(64+64+32) / THPV057023
IC100	51-06000-01	IC / RFR6000-40BCCP-C
IC101	51-06000-02	IC / RFL6000-16BCCP
IC304	51-06000-05	IC / PM6000-48BCCP
IC200	51-06050-01	MOBILE STATION MODEM / MSM6050C-208FBGA
IC103	51-06100-01	IC / RFT6100-40BCCP-E
IC204	51-07196-01	IC OR GATE / NC7SZ19P6X

Q202	51-07559-01	COMPARATOR IC / TC75S59FU
IC300	51-08356-01	CE-BUS IC / AT8356C47-ICT2T
IC400	51-09535-01	IC (I/O EXPANDER) / PCA9535BS
IC303	51-46101-01	IC / AAT4610AIJS-1-T1
IC104	51-77105-01	POWER AMP MODULE(CELLULAR) / CX77105
IC107	51-77107-01	POWER AMP MODULE(US-PCS) / CX77107
U1	80-06610-01	TEMPERATURE SENSOR / SM6610
F103	91-00002-01	GPS RF SAW FILTER(D/C) / B7840
IC203, IC205, IC207	91-00032-03	EMI FILTER / CSPRC032
IC302	91-00306-01	EMI FILTER / CSPEMI-306
IC301	91-00307-01	EMI FILTER / CSPEMI-307
F104	91-00530-01	TX SAW(CELLULAR) / TQS-530S-7G
DPX100	91-00836-13	SAW DUPLEXER(CELLULAR) / SFX836RN001
F105	91-01862-01	TX RF SAW FILTER(US-PCS) / SAWCD1G86LA0T00R1S
F101	91-07838-01	CDMA RX RF SAW FILTER(D/C) / B7838
DPX101	91-07904-01	FBAR DUPLEXER(US-PCS) / HPMD-7904
F102	91-25196-01	RX RF SAW FILTER(US-PCS,D/C) / SF25-1960M5UB01
	26-15000-01	SHIELD CAN 1 / GCC DBTM
	26-15000-02	SHIELD CAN 2 / GCC DBTM
	26-15000-03	SHIELD CAN 3 / GCC DBTM
	26-15000-04	SHIELD CAN 4 / GCC DBTM
	26-15000-05	SHIELD CAN 5 / GCC DBTM
	26-15000-06	SHIELD CAN 6 / GCC DBTM
CON301	28-15000-01	CONNECTOR BATTERY / GCC DBTM
	28-15000-03	CONNECTOR MFT / GCC DBTM
	29-15000-01	TERMINAL ANTENNA / GCC DBTM
	84-15001-00	MAIN PCB ARRAY (VER 3.2)