

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.

REFERENCE SYMBOL	DESCRIPTION
	LCD MODULE / LM019LC1S21
A1	TERMINAL ANTENNA
BF1	IND BEAD 120Ohm
C1, 3, 14, 15, 18, 20, 23, 27, 28, 35, 41, 46, 63, 70, 73, 75, 76, 77, 78, 90, 93, 97, 99, 100, 101, 145, 153, 154, 156, 169, 205, 210, 212, 214, 218, 229, 249, 277, 278	CAP 1000P 10%
C10, 25, 69, 81, 151, 152, 207	CAP NC
C11, 17	CAP 1P +/-0.25 P
C16, 61	CAP 0.5P +/-0.25
C19, 26, 50, 51, 56, 82, 83, 92,98, 155, 200, 201, 202, 256, 265, 266, 276, 302	CAP 0.01u 10%
C2, 21, 24, 32, 33, 34, 57, 58, 59, 60, 66, 67, 104, 108, 150, 157, 168, 180, 206, 213, 217, 219, 220, 221, 224, 225, 230, 250, 251, 253, 257, 271, 279, 290, 309, 336	CAP 0.1UF +80/-20%
C203	CAP 5600P 10%
C204	CAP 150P 5%
C222, 326, 327	CAP 33P 5%
C254	CAP 0.022U 10%
C280	TANTAL 33UF(3216) 4V +/-20%
C30, 31, 37, 40, 43, 47, 48, 49, 53, 62, 68, 71, 80, 84, 86, 91, 94, 96, 175, 208, 216, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 258, 259, 260, 261, 262, 263, 264, 267, 268, 269, 270, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 328, 330, 332, 337, 338, 339, 364	CAP 100P 5%
C308	CAP 470P 10%
C331	CAP 0.1UF +80/-20%
C36, 39	CAP 18P 5%
C38, 88, 102, 107, 112, 209, 211, 226, 227, 228, 300, 305, 306, 307	CAP 1UF +80/-20%
C4, 52, 65	CAP 2P +/-0.25 P
C414, 417, 420, 426, 429, 440, 466, 501, 502, 509, 510, 514, 515, 525	CAP 1uF +80/-20% / C1608JF1C 105Z
C415, 421, 422, 423, 424, 425, 437, 442, 443, 444, C455, 461, 503, 504, 505, 506, 516, 518, 519, 520	CAP 0.1uF +80/-20% / C1005JF1C104Z
C416, 427, 434, 438, 439, 441, 450, 451, 530, 531, C532, 533, 534	CAP 100P 5% / C1005CH1H101J
C418, 428, 430, 465, 469,	CAP 2.2uF +80/-20% / C1608Y5V1A225Z
C42, 103, 105, 106, 109, 110, 111, 304	TANTAL 10UF(2012) 6.3V +/-20%
C431	CAP 0.1UF +80/-20% / C1608Y5V104ZT
C432	CAP 68P 5% / C1005CH1H680J
C433	CAP 10UF +80/-20% / C2012JF1A106Z
C435, 436	CAP 100P 5% / C1608COG101JT
C445, 446, 447, 470, 471, 472, 473, 474, 475, 476, C477, 478, 479, 480, 481, 482, 483, 484, 485	CAP 56P 5% / C1005CH1H560J

C45	CAP 56P 5%
C5, 231, 232	CAP 22P 5%
C500	CAP 560P 5% / C1608C0G1H561J
C507, 508, 511, 512, 513	CAP 1UF 16V +/-20% / C2012X7RIC105K
C54, 252	CAP 4700P 10%
C55	CAP 0.047U 10%
C551	CAP (0603) 0.01uF +/-10% / GRP033R70J103KA01
C552, 553, 554, 555, 556, 557, 558, 559, 560, 561, C562, 563, 564, 565, 566, 567, 568, 569, 570, 571, C572, 573, 574, 575, 576, 577	CAP (0603) 100P +/- 5% / GRP0335C1E101JD01
C6, 12, 190	CAP 5P +/-0.25P
C64, 85, 255	CAP 0.047U +80/-20%
C7, 8, 13	CAP 4P +/-0.25 P
C74	CAP 15P 5%
C79	CAP 6P +/-0. 5P
C87, 95	CAP 9P +/-0.5 P
C89, 310, 329	CAP 10UF +80/-20%
C9	CAP 12P 5%
CN300	INTERFACE_CONNECTOR
CON100	RF CONN
CONN	FPC CONN(40PIN) / AXK840145J
CONN1	FPC CONN(40PIN)
CONN2	FPC CONN(40PIN) / AXK740145J
CONN403	LCD CONN / 33FHZ-SM1-T-G-ST-TB
CRY200	CRYSTAL 32.768KHz
CRY201	XTAL, 27MHz RESONATOR
D100, 101, 104, 105	DIODE
D103	DIODE
D201, 304	DIODE
D300, 307	DIODE
D301	DIODE
DPX100	SAW DUPLEXER
EAR1	EAR PHONE JACK
F100	RX IF SAW FILTER
F101	RX-SAW
F102, 103	TX SAW
FIN301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, FNG313, 314, 315	SHIELD STRAP
IC100	IC LNA
IC101	DOWNCONVERTER IC
IC102	IC
IC103	IC PLL

IC104	UPCONVERTER IC
IC105	POWER AMP MODULE
IC106	IC
IC107, 108	IC
IC200	MIDI (MA-2)
IC201	MCP(64M+8M)
IC202	IC OR GATE
IC203	MOBILE STATION MODEM
IC205	TI VBAP III(CODEC)
IC206	S-RAM(4M)
IC209	HALL SENSOR IC
IC302	REGULATOR IC
IC304	IC RESET
IC305	IC
IC306	TR(SWITCH)
IC400	IC (I/O EXPANDER) / PCA9555
IC403	TEMP SENSOR / SM6610
IC404	REGULATOR IC / TC1016-1.8
IC405	TR / UML6N
IC406	IC (LCD CONTROLLER) / MQ-2074
IC412	REGULATOR IC / R1141Q301D
IC413	WHITE LED DRIVER / LTC3202
IC420	REGULATOR IC / R1141Q-3.3
L100, 104	IND 180NH 2%
L101	IND NC (1608)
L102	IND 15NH 2%
L103	IND 27NH 5%
L105	IND 300NH 2%
L106, 112, 113, 145	IND 12NH 5%
L107, 116	IND 15NH 5%
L108	IND 22NH 5%
L109, 122	IND 10NH 5%
L110, 126	IND 4.7NH +/-0.3NH
L111	IND 47NH 2%
L115	IND 33NH 5%
L117, 118	IND 560 NH (2012)
L119	IND 82NH 5%
L120	IND 3.3NH +/-0.3NH
L121	IND 5.6NH +/-0.3NH
L123, 130	IND NC (1005)
L124	IND 27NH 2%

L125	IND 270NH 5%
L127	IND 6.8NH 5%
L140	IND 47NH 5%
LED200, 201, 202, 203, 204, 205, 206, 207, 210, 211	LED
LED208, LED209	NC
LED400, 401, 402, 403, 404, 405, 406, 407	LED (CALL_LED) / LTST-C195TBJRKT
MIC200	CONDENSER MICRO PHONE
MOT400	MOTOR / DMJBRK12B
Q101, 300	TR
Q120	POWER MOSFET
Q121, 202	TR
Q201, 304	TR
Q210	TR
Q211, 212	TR
Q301	TR
Q303	TR
Q305	FET
R100	RES 15 5%
R101, 130, 355, 359	RES 0 5%
R102	RES 5.1K 5%
R103	RES 39 5%
R105, 106, 109, 123, 127, 128, 133, 215, 225, 227, 229, 230, 231, 232, 290, 306, 317, 329	RES 10K 5%
R107, 126	RES 15K 5%
R108, 110, 111, 112, 115, 117, 119, 121, 129, 207, 208, 209, 210, 212, 393, 398, 399	RES 100 5%
R113	RES 390K 5%
R114, 131, 201	RES 100K 5%
R116	RES 8.2K 5%
R118	RES 2.7K 5%
R120	RES 68 5%
R122, 228	RES 750 5%
R124, 132, 233, 238, 358	RES 1K 5%
R125	RES 12K 5%
R134, 180, 202, 205, 217	RES 47K 5%
R135	RES 56K 1%
R145	RES 20 5%
R150	RES 22 5%
R159, 239	RES 5.1 5%
R200, 328	RES 27K 5%
R204, 234	RES 3.3K 5%
R211, 224, 303, 312	RES NC

R214, 245	RES 22K 5%
R216	RES 33K 5%
R218	RES 10 5%
R219	RES 2.4 5%
R220	RES 100K 1%
R221, 223, 226	RES 3K 5%
R237, 299	RES 2.2K 5%
R250, 251	RES 2.2 5%
R252, 253	RES 000 5%
R256	RES 680 5%
R300, 301, 318	RES 4.7K 1%
R304, 309	RES 3.3M 5%
R305, 307	RES 1M 5%
R308	RES 300K 5%
R315, 365	RES 270 5%
R316, 319, 320, 321, 322, 324, 325, 370, 371, 372, 381	RES 470 5%
R323, 326	RES 47 5%
R327	RES 51 5%
R330	RES 150 5%
R335, 374, 375, 376, 377	NETWORK RES 100
R345	RES 6.8K 1%
R347	RES 56K 5%
R379	NETWORK RES 470
R392, 394, 395, 396, 397	RES 1.8K 5%
R400, 403, 404, 407, 408, 411, 412, 415	RES 470 5% / MCR01MZS 471J
R401, 402, 405, 406, 409, 410, 413, 414	RES 750 5% / MCR01MZS751J
R416	RES 47K 5% / MCR01MZS 473J
R420	RES 10 5% / MCR01MZS 100J
R421	RES 1M 5% / MCR01MZS 105J
R422	RES 2.2K 5% / MCR01MZS 222J
R501	RES 150K 1% / MCR01MZS 154F
R502, 503, 504	RES 39 5% / MCR01MZS 390J
SPK400	RECEIVER UNIT / R1332SW2
STH100	SPLITTER
SW400	LIGHT TOUCH SWITCH / SKQRAAE010
TCXO100	TCXO
V300	VARISTOR
V400, 401	NC(Varistor)
VCO100	VCO