

Puma BOM

NEC PART NUMBER	PARTS NAME	Q'ty
ENT-C00013-0001	TEPSLJ0J475M8RSN	5
ENT-C00014-0001	TEPSLP0J106M8RSN	3
ENY-C00006-0001	TEESVP0E476M8R	2
MAS-CA0004-B001	GRM36B221K50NT CAPACITOR,CERAM	1
MAS-CA0004-B003	GRM36B331K50NT CAPACITOR,CERAM	2
MAS-CA0004-B010	GRM36B102K50NT CAPACITOR,CERAM	1
MAS-CA0004-B025	GRM36B103K16NT CAPACITOR,CERAM	14
MAS-CA0004-B029	GRM36B223K16NT CAPACITOR,CERAM	1
MAS-CA0004-B040	GRM36B104K10NT CAPACITOR,CERAM	90
MAS-CA0004-B044	GRM36B334K6.3NT CAPACITOR,CERAM	1
MAS-CA0004-B045	GRM36B474K6.3NT CAPACITOR,CERAM	1
MAS-CA0010-T003	GRM36CK010C50T CAPACITOR, CERAM	7
MAS-CA0010-T013	GRM36CH070D50T CAPACITOR, CERAM	1
MAS-CA0010-T016	GRM36CH100D50T CAPACITOR, CERAM	3
MAS-CA0010-T022	GRM36CH180J50T CAPACITOR, CERAM	8
MAS-CA0010-T026	GRM36CH270J50T CAPACITOR, CERAM	1
MAS-CA0010-T028	GRM36CH330J50T CAPACITOR, CERAM	3
MAS-CA0010-T034	GRM36CH560J50T CAPACITOR, CERAM	9
MAS-CA0010-T040	GRM36CH101J50T CAPACITOR, CERAM	4
MAS-HE0001-T002	ERBFE1R00U FUSE, CHIP	1
MAS-LA0005-T007	LL1005-FHL3N3S COIL, LEADLESS	1
MAS-LA0005-T013	LL1005-FHL10NJ COIL, LEADLESS	4
MAS-LA0005-T019	LL1005-FHL33NJ COIL, LEADLESS	1
MAS-LA0005-T025	LL1005-FHLR10J COIL, LEADLESS	1
MAS-LY0002-TD03	BLM15BB220SN1D FERRITE, BEAD	2
MAS-RA0001-T019	CR16SB560D RESISTOR, THICK FILM	3
MAS-RA0001-T065	CR16SB472D RESISTOR, THICK FILM	1
MAS-RA0001-T079	CR16SB183D RESISTOR, THICK FILM	1
MAS-RA0001-T105	CR16SB224D RESISTOR, THICK FILM	2
MAS-RA0005-T077	CR16SB122J RESISTOR, CHIP	14
MAS-RA0005-T107	CR16SB223J RESISTOR, CHIP	1
MAS-RA0005-T111	CR16SB333J RESISTOR, CHIP	2
MAS-RA0005-T139	CR16SB474J RESISTOR, CHIP	1
MAS-RA0005-T147	CR16SB105J RESISTOR, CHIP	1
MAS-VB0007-0002	RSX101VA-30 FS TR	2
MAS-VD0009-0002	VDZ FS T2R 8.2B	1
MAS-VH0018-0002	2SK3541 FS T2L	2
MAS-YA0019-0001	S-8110CNB-DRA-TF	1
MAS-YA0020-T001	LMSP54CA-157	1
MAT-CA0001-T008	CK2012B106K6.3L CAPACITOR, CERAM	2
MAT-CA0006-T007	CC0603CH5R0C25 CAPACITOR, CERAM	2
MAT-CA0006-T009	CC0603CH7R0D25 CAPACITOR, CERAM	1
MAT-CA0006-T010	CC0603CH8R0D25 CAPACITOR, CERAM	2
MAT-CA0006-T012	CC0603CH100J25 CAPACITOR, CERAM	21
MAT-CA0006-T013	CC0603CH120J25 CAPACITOR, CERAM	2
MAT-CA0006-T014	CC0603CH150J25 CAPACITOR, CERAM	4
MAT-CA0006-T015	CC0603CH180J25 CAPACITOR, CERAM	11
MAT-CA0006-T017	CC0603CH270J25 CAPACITOR, CERAM	27
MAT-CA0006-T018	CC0603CH330J25 CAPACITOR, CERAM	62
MAT-CA0006-T020	CC0603CH470J16 CAPACITOR, CERAM	1
MAT-CA0006-T021	CC0603CH560J16 CAPACITOR, CERAM	1
MAT-CA0006-T024	CC0603CH101J10 CAPACITOR, CERAM	9
MAT-CA0007-T009	CK0603B222K10 CAPACITOR, CERAMIC	1
MAT-CA0007-T013	CK0603B103K6.3 CAPACITOR, CERAMIC	2
MAT-CA0008-T001	CK1608B105K16 CAPACITOR, CERAMIC	13
MAT-CA0008-T002	CK1608B475K6.3 CAPACITOR, CERAMIC	3
MAT-HE0006-T002	ERBFE0R75U CHIP FUSE	1
MAT-HE0007-T002	TF16SN0.315TTD CHIP FUSE	1
MAT-HE0009-T001	ERBSD0R50U CHIP FUSE	1
MAT-HE0009-T003	ERBSD1R00U CHIP FUSE	1
MAT-IJ0018-T001	RA1RN11H12-E1000 CONNECTOR	1
MAT-IJ0026-T002	WA5P080VA1E3000 CONNECTOR	1
MAT-IJ0027-T002	WA5B080VA2E1000 CONNECTOR	1

MAT-LA0001-T047	LQW1608AR22G00T1 CHIP COIL	2
MAT-LA0016-T006	LQW15AN6N2C00D21 COIL LEADLESS	1
MAT-LA0016-T008	LQW15AN7N5H00D21 COIL LEADLESS	1
MAT-LA0016-T015	LQW15AN27NH00D21 COIL LEADLESS	1
MAT-QA0004-T001	FC-135 32.768KHZ CRYSTAL	1
MAT-RA0003-T009	CR20B220J RESISTOR	62
MAT-RA0003-T013	CR20B330J RESISTOR	3
MAT-RA0003-T017	CR20B470J RESISTOR	4
MAT-RA0003-T025	CR20B101J RESISTOR	3
MAT-RA0003-T035	CR20B271J RESISTOR	2
MAT-RA0003-T037	CR20B331J RESISTOR	1
MAT-RA0003-T049	CR20B102J RESISTOR	10
MAT-RA0003-T053	CR20B152J RESISTOR	1
MAT-RA0003-T057	CR20B222J RESISTOR	3
MAT-RA0003-T069	CR20B682J RESISTOR	2
MAT-RA0003-T071	CR20B822J RESISTOR	5
MAT-RA0003-T073	CR20B103J RESISTOR	3
MAT-RA0003-T077	CR20B153J RESISTOR	4
MAT-RA0003-T081	CR20B223J RESISTOR	4
MAT-RA0003-T083	CR20B273J RESISTOR	4
MAT-RA0003-T089	CR20B473J RESISTOR	2
MAT-RA0003-T093	CR20B683J RESISTOR	2
MAT-RA0003-T097	CR20B104J RESISTOR	29
MAT-RA0003-T108	CR20B304J RESISTOR	3
MAT-RA0003-T109	CR20B334J RESISTOR	1
MAT-RA0003-T115	CR20B564J RESISTOR	1
MAT-RA0003-T121	CR20B105J RESISTOR	10
MAT-RA0003-T122	CR20B000J RESISTOR	10
MAT-SD0004-T001	EVQ3P701K SWITCH, PUSH BUTTON	2
MAT-VA0001-0001	1SS400 TE61 DIODE	1
MAT-VH0017-0001	CPH5611-TL	1
MAT-VK0017-T002	NL-197SYG-CD-T LED	16
MAT-VK0034-T001	CL-501G-D-T LED	1
MAT-VY0007-0001	SBS804-TL	1
MAY-BD0014-0001	ML414 BATTERY,LITHIUM SECONDARY	1
MAY-BL0006-A001	LA4-436DE VIBRATOR	1
MAY-CA0015-T001	CK1608B225K10 CAPACITOR, CERAMIC	4
MAY-CA0016-T001	CK2012B106K10 CAPACITOR, CERAMIC	5
MAY-CA0017-T001	GRM155B31A224KE18D CAPACITOR, CE	2
MAY-CC0010-T001	TEESVJ1C105M8R CAPASITOR, TANTA	1
MAY-CC0010-T005	TEESVJ1A475M8R CAPASITOR, TANTA	5
MAY-CC0011-T008	TEESVP0J226M8R CAPASITOR, TANTA	2
MAY-DA0011-B001	MICROPHONEUNIT	1
MAY-DB0005-A001	HDR2113-010020 RECEIVER	1
MAY-DG0010-B001	SPEAKERASSY	1
MAY-ED0007-A001	INTERNAL ANTENNA	1
MAY-FE0025-0001	SAFSD942MFM0T07R05 FILTER, SAW	1
MAY-FE0029-T001	1960MHZ FILTER, SAW	1
MAY-FE0038-T001	1842MHZ SAW FILTER	1
MAY-FY0002-T003	EXC24CB221U NOISE REJECTION FIL	2
MAY-HK0003-T001	NCP15WF104J03RC THERMISTOR	1
MAY-JJ0020-T001	TCX0557-010100	1
MAY-LB0002-T003	BLA2ABB220SN4D CHIP FERRITE BEAD	4
MAY-LB0004-T001	C3-Z1.5R(10)-T CHOKE COIL	1
MAY-PE0015-M001	LS022Q8DD07 LCD MODULE	1
MAY-PE0016-M001	RB263 LCD MODULE	1
MAT-PM0017-A001	NYN-06A-6 LED MODULE	1
MAY-QA0003-T001	12MHZ CRYSTAL RESONATOR	1
MAY-QA0005-T001	13MHZ CRYSTAL RESONATOR	1
MAY-QC0002-T001	SG-310SDF DCXO	1
MAY-VA0010-0001	RB521G-30FS T2R	2
MAY-VH0010-0001	SI1016X-T1	2
MAY-VH0013-T001	EM6K1 T2R	1
MAY-VH0016-T001	RTF025N03 TL	1
MAY-VI0003-A001	SI2315DS-T1 TRANSISTOR	1
MAY-VK0013-T002	CL-470S-3WD-DS-T FLASH LED	1
MAY-VL0003-T001	CIM-86S7B-T IRDA MODULE	1
MAY-VY0005-0001	AVR-MI005C080MTAABG DIODE	10

MAY-VY0005-0002	AVR-M1005C270MTAABG DIODE	5
MAY-VY0012-T001	EM-1671-FT HOLE IC	1
MAY-VY0014-T001	AVR-M1005C080MTACB DIODE	4
MAY-VY0015-0001	AVR-M0603C120MTAAB DIODE	2
MAY-XA0006-T001	ID1B-6S-2.54SF	1
MAY-XD0004-T002	SPC 3P-SMT CONNECTOR, BATTERY	2
MAY-XF0007-T001	55900-1091 HSJ	1
MAY-YA0030-0001	BU8857GU-E2	1
MAY-YB0006-0002	L-C-CSP2200B-YV10-DB	1
MAY-YB0005-0002	L-TR09WQTF C15IN2B-DB	1
MAY-YC0030-0001	RC5T725 IC, POWER	1
MAY-YC0068-T002	MM1613ANRE	1
MAY-YC0098-T001	R1114Q251D-TR	1
MAY-YD0036-0024	OMAP1510GGZG3J MICROCONTROLLER	1
MAY-YD0059-T001	LTC4053EMSE-4.2#TR	1
MAY-YD0060-T001	LTC3205EUF#TR	1
MAY-YD0065-T002	RF3133TR7	1
MAY-YD0070-T001	SI4206-BMR	1
MAY-YD0071-T001	MC74VHC1G04DFT2G	1
MAY-YD0072-T001	MC74VHC1G08DFT2G	1
MAY-YD0073-T001	MC74VHC1G32DFT2G	5
MAY-YD0075-0001	RD38F2020W0ZBQ0	1
MAY-YD0090-0001	K4M28163PF-RG1L	1
MAY-YD0078-T001	SN74LVC1G17YZPR	1
MAY-YD0079-T001	SN74LVC2G74YZPR	1
MAY-YD0080-0001	TPA6100A2DGKR	2
MAY-YD0081-0001	LM4893ITLX	1
PSC-CT67B0C474K	GRM39B474K10 CAPACITOR, CERAMIC	3
PSC-KT39B0C474K	GRM39B474K10NT CAPACITOR, CERAMIC	1
PSC-ST29Z0B106M	TCFGP0J106M8R CAPACITOR, TANTALUM	1
PSL-18034-010ZZ	ELJRE8N2JF2 COIL, LEADLESS	1
PSR-NT13B0A1R0J	CR16B1R0J RESISTOR, FIXED	1
PSR-NT16B0A000J	CR16SB000J RESISTOR, FIXED	4
PSR-NT16B0A102J	CR16SB102J RESISTOR, FIXED	4
PSR-NT16B0A103J	CR16SB103J RESISTOR, FIXED	2
PSR-NT16B0A104J	CR16SB104J RESISTOR, FIXED	4
PSR-NT16B0A151J	CR16SB151J RESISTOR, FIXED	2
PSR-NT16B0A181J	CR16SB181J RESISTOR, FIXED	2
PSR-NT16B0A184J	CR16SB184J RESISTOR, FIXED	1
PSR-NT16B0A1R0J	CR16SB1R0J RESISTOR, FIXED	1
PSR-NT16B0A224J	CR16SB224J RESISTOR, FIXED	2
PSR-NT16B0A270J	CR16SB270J RESISTOR, FIXED	1
PSR-NT16B0A304J	CR16SB304J RESISTOR, FIXED	1
PSR-NT16B0A332J	CR16SB332J RESISTOR, FIXED	2
PSR-NT16B0A390J	CR16SB390J RESISTOR, FIXED	1
PSR-NT16B0A394J	CR16SB394J RESISTOR, FIXED	2
PSR-NT16B0A473J	CR16SB473J RESISTOR, FIXED	2
PSR-NT16B0A500J	CR16SB500J RESISTOR, FIXED	2
PSR-NT16B0A563J	CR16SB563J RESISTOR, FIXED	1
PSR-NT16B0A683J	CR16SB683J RESISTOR, FIXED	3
MAY-CA0019-T001	C2012JB1A106KT CAPACITOR, CERAMIC	2
MAT-CA0003-T002	CK1005B105K6.3 CAPACITOR, CERAMIC	4
MAS-RA0005-T063	CR16SB331J RESISTOR, CHIP	2
PSR-ST05B0A240D	RR0510R-240-D RESISTOR, METAL	2
PSR-ST05B0A273D	RR0510R-273-D RESISTOR, METAL	2
PSR-ST05B0A822D	RR0510P-822-D RESISTOR, METAL	2
MAY-YD0089-0001	RD48F4400L0ZDQ0	1
MAY-YC0062-0001	M6MGS087M32LT	1
15T-800176	PRINT BOARD UPPER	1
15T-800175	PRINT BOARD LOWER	1
15T-800185	MRFP C	1
MAT-PP0009-A001	MCB303-E CAMERA MODULE	1
MAY-BD0016-A001	3.7V 720MAH LI-ION BATTERY	0
MAY-BD0016-C001	3.7V 720MAH LI-ION BATTERY	1
MAY-BD0017-A001	3.7V 950MAH LI-ION BATTERY	0
MAY-BD0017-C001	3.7V 950MAH LI-ION BATTERY	1
MAY-BG0008-0001	DESKTOP CHARGER	1
MAY-BH0010-A001	5.6V 720MA AC ADAPTER	1

MAY-BJ0008-A001	CIGARETTE LIGHTER ADAPTER	1
MAY-DH0008-A001	SIMPLE HANDS FREE KIT	1
MAY-MD0002-0001	Y662026-A CABLE ASSY	1
MAY-MF0003-CN01	AC CABLE	1
MAY-MF0003-EU01	AC CABLE	0
MAY-MF0003-UK01	AC CABLE	0
MAY-MF0003-US02	AC CABLE (US CABTIRE CABLE)	0
15T-002427	SHIELD(HEL)	1
15Y-001431	CUSHION(R5)	1
15Y-001610	TAPE(MR-FPC)	1
15T-002433	TAPE(LCD)	1
15T-002434	GASKET(1)	1
15T-002429	SHIELD(MEM)	1
15T-002495	GASKET(2)	1
15Y-001439	EARTH TERMINAL(ML)	1
15Y-001438	EARTH TERMINAL(MR)	1
15Y-001445	SHIELD(TRI)	1
15T-002497	SHIELD(GEM)	1
15T-002469	SHIELD(TX-3)	1
15T-002470	SHIELD(RX)	1
15Y-001446	SHIELD(XTL)	1
15T-900812	S/N LABEL	1
15Y-001447	METAL DOME SHEET	1
15Y-001449	BLIND SHEET	1
15T-002406	FRONT CASE(R)	1
15T-002408	FRONT CASE(M)ASSY	1
15Y-001448	HINGE UNIT	2
15T-002430	NET(REC)	1
15Y-001433	MAGNET	1
15Y-001464	DOUBLE FACE(MG)	1
15T-002407	REAR COVER(R)	1
15T-002432	CUSHION(R1)	1
15Y-001383	WATER SENSITIVE LABEL	1
15Y-001403-04	REAR COVER(M)ASSY	1
15T-002435	CUSHION(ST)	1
15Y-001007	WATER SENSITIVE LABLE	2
15Y-001337	HOLDER(V)	1
15T-002410	SCREEN(F)	1
15T-002411-01	SCREEN(R)	1
15T-002412	RING(R)	1
15T-002413	DOUBLEFACE(SR)	1
15T-002457	PANEL(R) ASSY	1
15T-002458	SCREEN(C)ASSY	1
15T-002420	LOCK PLATE	1
15T-002425-01	KEY SHEET ASSY	1
15Y-001413	SIDE KEY	1
15Y-001415-04	COVER(SHF)	1
15Y-001414-04	COVER(I/O)	1
15T-002426	PLATE(M)	1
15T-002424	PLATE(R)	1
15Y-001417	CAP(M)	1
15Y-001423-04	CUSHION(1)	2
15T-002431	CUSHION(C)	1
15Y-001429	CUSHION(R3)	1
15Y-001420	SEAL(RF)	1
15Y-001421	SEAL(RR)	1
15Y-001422	SEAL(MR)	1
15Y-001466	CUSHION(MIC)	1
15Y-001470	PROTECTOR SHEET(F)	1
15T-002436	PROTECTOR SHEET(R)	1
15Y-001410	FRONT FRAME	1
15Y-001424	CUSHION(F1)	1
15T-000637-02	MACHINE SCREW	4
15T-002067-02	TAPPING SCREW	5
15Y-001473	WARRANTY LABEL	1
15T-002505	CUSHION(ANT)	1
15T-002428	TAPE(MEM)	1
15Y-001479	Label(IMEI)	1

Adjustment method of output power (Tune-Up / Alignment Procedure)

- HHP and personal computer are connected using USB cable.
- The software for adjustment is operated.
- Press PWR to turn on the phone.

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- Command line of PC input      ' TestModeOn '
                                : testmode
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- Command line of PC input 'ContTxon,661,5,0,2 ' and ' SetPower,0,2 '
                        :Tx on at PCS1900 661ch power level 0
                        'ContTxon,190,5,7,3 ' and ' SetPower,7,3 '
                        :Tx on at GSM850 190ch power level 7
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[illegible]

- Command line of PC input : Tx off ' ContTxOff

- Command line of PC input 'Storecaldata': Transfer ramp data from RAM to NVM and re calculate the checksum

Appendix 1 command list

- 1) TestModeOn

Syntax	TestModeOn
Parameters	None
Returns	TestModeOn:DONE

- 2) ContTxOn

Syntax	ContTxOn, <UINT8 TxArfcn>, <UINT8 Trainingsequence>, <UINT8Powerlevel>, <UINT8 Band>
Parameters	TxArfcn, channel to transmit on valid inputs 512 to 810 for PCS1900, 128 to 251 for GSM850 Training sequence valid inputs 0 to 7 Powerlevel valid inputs 0 to 15 for PCS1900, 7 to 19 for GSM850 Band valid inputs 2 for PCS1900, 3 for GSM850
Returns	ContTxOn:DONE

- 3) SetRamp

Syntax	SetRamp,< Array of 16-bit values >
Parameters	The values of a powerramp (normally 53 values)
Returns	SetRamp:DONE

- 4) ContTxOff

Syntax	ContTxOff
Parameters	None
Returns	ContTxOff:DONE

- 5) SetPower

Syntax	SetPower, <UINT8 PowerLevel>, <UINT8 Band>
Parameters	PowerLevel valid inputs 0 to 15 for PCS1900, 7 to 19 for GSM850 Band valid inputs 2 for PCS1900, 3 for GSM850
Returns	SetPower/PowerLevel:DONE

- 6) StoreCalData

Syntax	StoreCalData
Parameters	None
Returns	StoreCaldata:DONE