

Marlin BOM

	NEC PARTS NUMBER	PARTS NAME	Q'ty
	MAY-QA0005-T001	13MHZ CRYSTAL RESONATOR	1
	MAY-XA0008-T001	2-292292-4	1
	MAY-VY0015-0001	AVR-M0603C120MTAAB DIODE	15
	MAY-VY0005-0001	AVR-M1005C080MTAABG DIODE	2
	MAY-VY0014-T001	AVR-M1005C080MTACB DIODE	2
	MAY-VY0005-0002	AVR-M1005C270MTAABG DIODE	3
	MAT-ED0010-T001	EBMGH8A245FAT HELICAL CHIP ANTENNA	1
	MAY-YC0133-T001	BU8852GU-E2	1
	MAY-CA0019-T001	C2012JB1A106KT CAPACITOR, CERAMIC	5
	MAT-CA0006-T012	CC0603CH100J25 CAPACITOR, CERAMIC	7
	MAT-CA0006-T024	CC0603CH101J10 CAPACITOR, CERAMIC	4
	MAT-CA0006-T013	CC0603CH120J25 CAPACITOR, CERAMIC	2
	MAT-CA0006-T015	CC0603CH180J25 CAPACITOR, CERAMIC	8
	MAT-CA0006-T014	CC0603CH150J25 CAPACITOR, CERAMIC	4
	MAT-CA0006-T017	CC0603CH270J25 CAPACITOR, CERAMIC	16
	MAT-CA0006-T018	CC0603CH330J25 CAPACITOR, CERAMIC	56
	MAT-CA0006-T020	CC0603CH470J16 CAPACITOR, CERAMIC	4
	MAT-CA0006-T021	CC0603CH560J16 CAPACITOR, CERAMIC	5
	MAT-CA0006-T007	CC0603CH5R0C25 CAPACITOR, CERAMIC	2
	MAY-VL0004-T001	CIM-51S7RV4-T IRDA MODULE	1
	MAT-CA0007-T001	CK0603B101K16 CAPACITOR, CERAMIC	7
	MAT-CA0003-T002	CK1005B105K6.3 CAPACITOR, CERAMIC	1
	MAT-CA0008-T001	CK1608B105K16 CAPACITOR, CERAMIC	6
	MAY-CA0015-T001	CK1608B225K10 CAPACITOR, CERAMIC	8
	PSR-NT13B0A001J	CR16B000J RESISTOR, FIXED	1
	MAS-RA0005-T001	CR16SB0R0J RESISTOR, CHIP	2
	MAS-RA0005-T051	CR16SB101J RESISTOR, CHIP	1
	MAS-RA0005-T075	CR16SB102J RESISTOR, CHIP	7
	MAS-RA0005-T099	CR16SB103J RESISTOR, CHIP	2
	MAS-RA0001-T097	CR16SB104D RESISTOR, THICK FILM CHIP	2
	MAS-RA0005-T123	CR16SB104J RESISTOR, CHIP	5
	MAS-RA0005-T147	CR16SB105J RESISTOR, CHIP	2
	MAS-RA0005-T055	CR16SB151J RESISTOR, CHIP	2
	MAS-RA0005-T079	CR16SB152J RESISTOR, CHIP	1
	MAS-RA0005-T103	CR16SB153J RESISTOR, CHIP	2
	MAS-RA0005-T057	CR16SB181J RESISTOR, CHIP	2
	MAS-RA0001-T103	CR16SB184D RESISTOR, THICK FILM CHIP	1
	MAS-RA0005-T083	CR16SB222J RESISTOR, CHIP	1
	MAS-RA0005-T131	CR16SB224J RESISTOR, CHIP	2
	MAS-RA0005-T038	CR16SB330J RESISTOR, CHIP	1
	MAS-RA0005-T111	CR16SB333J RESISTOR, CHIP	3
	MAS-RA0005-T040	CR16SB390J RESISTOR, CHIP	1
	MAS-RA0001-T111	CR16SB394D RESISTOR, THICK FILM CHIP	1
	MAS-RA0001-T066	CR16SB512D RESISTOR, THICK FILM CHIP	2
	MAS-RA0005-T069	CR16SB561J RESISTOR, CHIP	16
	MAS-RA0005-T093	CR16SB562J RESISTOR, CHIP	2
	MAS-RA0005-T117	CR16SB563J RESISTOR, CHIP	1
	MAS-RA0005-T119	CR16SB683J RESISTOR, CHIP	1
	MAS-RA0001-T071	CR16SB822D RESISTOR, THICK FILM CHIP	2
	MAT-RA0003-T122	CR20B000J RESISTOR	3
	MAT-RA0003-T025	CR20B101J RESISTOR	29
	MAT-RA0003-T049	CR20B102J RESISTOR	3
	MAT-RA0003-T073	CR20B103J RESISTOR	2
	MAT-RA0003-T097	CR20B104J RESISTOR	14
	MAT-RA0003-T005	CR20B150J RESISTOR	1
	MAT-RA0003-T007	CR20B180J RESISTOR	1
	MAT-RA0003-T009	CR20B220J RESISTOR	7
	MAT-RA0003-T057	CR20B222J RESISTOR	2
	MAT-RA0003-T013	CR20B330J RESISTOR	4
	MAT-RA0003-T085	CR20B333J RESISTOR	5
	MAT-RA0003-T109	CR20B334J RESISTOR	1
	MAT-RA0003-T017	CR20B470J RESISTOR	4
	MAT-RA0003-T114	CR20B514J RESISTOR	1
	MAS-RA0003-T071	CR20B822JT RESISTOR, CHIP	5
	MAY-JH0008-T001	CRS5001-2304E	1
	MAY-YB0007-A001	L-C-CSP2600C-YV10-DB	1
	MAT-YA0035-T001	ENW84501J	1
	MAT-HE0006-T002	ERBFE0R75U FUSE, CHIP	1
	MAT-HE0006-T003	ERBFE1R00 U FUSE, CHIP	2

MAT-HE0009-T001	ERBSD0R50U CHIP FUSE	1
MAT-SD0004-T001	EVQ3P701K SWITCH, PUSH BUTTON	2
MAY-VY0013-T001	EW-6771-T3 HOLE IC	1
MAY-FY0002-T003	EXC24CB221U NOISE REJECTION FILTER	1
MAT-QA0004-T001	FC-135 32.768KHZ CRYSTAL	1
MAY-CA0017-T001	GRM155B31A224KE18D CAPACITOR, CERAMIC	3
MAY-CA0017-T474	GRM155B31A474KE14D CAPACITOR CERAMIC	7
MAS-CA0004-B010	GRM36B102K50NT CAPACITOR,CERAMIC	4
MAS-CA0004-B023	GRM36B103K25NT CAPACITOR,CERAMIC	13
MAS-CA0004-B040	GRM36B104K10NT CAPACITOR,CERAMIC	47
MAS-CA0004-B001	GRM36B221K50NT CAPACITOR,CERAMIC	1
MAS-CA0010-T009	GRM36CH030B50T CAPACITOR, CERAMIC	1
MAS-CA0010-T011	GRM36CH050C50T CAPACITOR, CERAMIC	1
MAS-CA0010-T040	GRM36CH101J50T CAPACITOR, CERAMIC	5
MAS-CA0010-T022	GRM36CH180J50T CAPACITOR, CERAMIC	3
MAS-CA0010-T026	GRM36CH270J50T CAPACITOR, CERAMIC	6
MAS-CA0010-T034	GRM36CH560J50T CAPACITOR, CERAMIC	4
MAS-CA0010-T003	GRM36CK010C50T CAPACITOR, CERAMIC	1
MAY-YD0133-T001	ISP1102BS,118	1
MAT-FM0001-T001	LDF32881M01M-002	1
MAS-LA0005-T013	LL1005-FHL10NJ COIL, LEADLESS	3
MAS-LA0005-T019	LL1005-FHL33NJ COIL, LEADLESS	1
MAS-LA0005-T025	LL1005-FHLR10J COIL, LEADLESS	1
MAT-LA0007-T013	LLV0603-FB10NJ CHIP COIL	1
MAY-YD0129-0001	LM4893ITLX/NOPB	1
MAY-YD0132-T001	LTC4053EMSE-4.2#TRPBF	1
MAY-YC0130-A001	M6MLD277J3ZDWG	1
MAY-VA0013-T001	MA2711100L	1
MAY-VA0012-T001	MA27D2900L	2
MAY-YC0131-T001	MM3031HURE	1
MAY-BD0024-T001	NBL414R-TT33-1-TP1 LITHIUM SECONDARY BAT	1
MAY-HK0003-T001	NCP15WF104J03RC THERMISTOR	1
MAY-YD0084-T001	NL17SZ32XV5T2	1
MAY-VK0015-T001	NL-197TLY-CD-T AMBER LED	16
MAY-VH0021-T001	QS5K2TR	1
MAT-YD0047-T001	R1160N291B-TR-FA	1
MAY-JJ0010-T001	RA1RN11H11-E1000 CONNECTOR	1
MAY-YD0128-T001	RF3146PTR13	1
MAY-YA0037-T001	S-8110CNB-DRA-TF-G	1
MAT-VY0012-T001	SBS804-TL-E	1
MAY-YD0070-T002	SI4206-BMR	1
MAY-JJ0020-T001	TCX0557-010100	1
MAT-XF0008-T001	TCX3188-110177 JACK	1
MAY-CC0010-T005	TEESVJ1A475M8R CAPASITOR, TANTALUM	3
MAS-CC0001-TE01	TEESVJ1C105M8R CAPACITOR, TANTALUM	1
MAY-CC0009-T476	TEFSVJ0E476M8R CAPACITOR TANTALUM	2
MAT-HE0007-T002	TF16SN0.315TTD	1
MAY-YB0008-A001	L-TRHPXAXPE11IE-DB	1
MAY-VF0014-T001	UP0487800L	2
MAT-JJ0027-T002	WA5B080VA2E1000 CONNECTOR	1
MAY-JJ0034-T001	ZK6S003V9E BATTERY CONNECTOR	1
MAT-ED0009-A001	824-1990MHZ ANTENNA	1
MAT-DA0019-B001	DA0019-B MICROPHONE UNIT	1
15T-800203	800203 LOWER BOARD PWB	1
MAY-DG0010-B001	SPEAKERASSY	1
MAT-JJ0026-T002	WA5P080VA1E3000 CONNECTOR	1
15T-800202	800202 MR-FPC	1
MAT-VA0004-0001	1SS389(TPH3)	2
MAT-VH0025-0001	2SK354700L	1
MAY-VY0005-0001	AVR-M1005C080MTAABG DIODE	2
MAT-JJ0029-T001	AXK79502005 CONNECTOR	1
MAT-JJ0029-T002	AXK79503401 CONNECTOR	1
MAY-YC0082-0001	BD6155FVM-TR	1
MAT-CA0008-T006	CK1608B106M6.3	5
MAT-CA0008-T005	CK1608B475K10 CAPACITOR, CERAMIC	1
MAY-CA0019-T001	C2012JB1A106KT CAPACITOR, CERAMIC	2
MAT-CA0006-T018	CC0603CH330J25 CAPACITOR, CERAMIC	11
MAT-CA0007-T001	CK0603B101K16 CAPACITOR, CERAMIC	3
MAT-CA0003-T002	CK1005B105K6.3 CAPACITOR, CERAMIC	2
MAT-CA0008-T001	CK1608B105K16 CAPACITOR, CERAMIC	4
MAY-CA0015-T001	CK1608B225K10 CAPACITOR, CERAMIC	13
MAT-CA0008-T002	CK1608B475K6.3 CAPACITOR, CERAMIC	1
MAY-VK0013-T002	CL-470S-3WD-DS-T FLASH LED	1
MAS-VK0026-T001	NL-502K-D-T	1

MAS-RA0005-T001	CR16SB0R0J	RESISTOR, CHIP	3
MAS-RA0005-T051	CR16SB101J	RESISTOR, CHIP	1
MAS-RA0005-T075	CR16SB102J	RESISTOR, CHIP	3
MAS-RA0005-T123	CR16SB104J	RESISTOR, CHIP	1
MAS-RA0005-T147	CR16SB105J	RESISTOR, CHIP	1
MAS-RA0005-T053	CR16SB121J	RESISTOR, CHIP	2
MAS-RA0005-T055	CR16SB151J	RESISTOR, CHIP	1
PSR-NT16B0A2R2J	CR16SB2R2J	RESISTOR, FIXED	1
PSR-NT16B0A2R7J	CR16SB2R7J	RESISTOR, FIXED	1
MAS-RA0005-T135	CR16SB334J	RESISTOR, CHIP	1
MAS-RA0001-T019	CR16SB560D	RESISTOR, THICK FILM CHIP	1
MAS-RA0005-T045	CR16SB560J	RESISTOR, CHIP	3
MAT-RA0003-T122	CR20B000J	RESISTOR	6
MAT-RA0003-T025	CR20B101J	RESISTOR	5
MAT-RA0003-T073	CR20B103J	RESISTOR	6
MAT-RA0003-T097	CR20B104J	RESISTOR	17
MAT-RA0003-T121	CR20B105J	RESISTOR	21
MAT-RA0003-T085	CR20B333J	RESISTOR	5
MAY-QB0001-T201	CSTCE13M5V33003-T	CERAMIC RESONATOR	1
MAT-HE0009-T002	ERBSD0R75U	CHIP FUSE	1
MAY-FY0002-T003	EXC24CB221U	NOISE REJECTION FILTER	1
MAY-CA0017-T001	GRM155B31A224KE18D	CAPACITOR, CERAMIC	1
MAY-CA0017-T474	GRM155B31A474KE14D	CAPACITOR CERAMIC	1
MAS-CA0004-B040	GRM36B104K10NT	CAPACITOR,CERAMIC	30
MAS-CA0010-T022	GRM36CH180J50T	CAPACITOR, CERAMIC	2
MAS-CA0015-T212	GRM39B224K16NT	CAPACITOR, CERAMIC	1
MAS-CA0011-T002	GRM40-095B105K25NT	CAPACITOR, CERAMIC	1
MAS-CA0011-T004	GRM40-095B475K10NT	CAPACITOR, CERAMIC	1
MAY-YC0124-A001	HJ93D1326BPV		1
MAT-JN0004-T003	IL-FHJ-27S-HF-N1-R2000	CONNECTOR	1
MAY-FF0005-T001	LFH24A2A1A144MT	LC CHIP FILTER	2
MAY-LA0005-T475	LQH2MCN4R7M02L	COIL INDUCTANCE	1
MAT-LA0015-T047	LQW18ANR22G00D21	COIL, LEADLESS	3
MAT-VD0012-0001	MAZS18000L		1
MAT-VH0041-0001	MCH3309-TL-E		1
MAT-VH0024-0001	MCH5809-TL-E		1
MAY-VH0018-T001	MCH6305-TL-E		1
MAT-VH0037-0001	MCH6307-N-TL-E		1
MAY-FF0007-T220	MEA1608LC220T	LC CHIP FILTER	4
MAY-YD0130-T001	NL17SZ07XV5T2		1
MAT-YD0049-T001	NL27WZ07DFT2G		1
MAT-JJ0038-T001	NMS011-2300-1(01)	MINISD CONNECTOR	1
MAT-YD0046-T001	R1161N291D-TR-FA		1
MAY-YC0091-0003	RC5T729-0003		1
MAY-CC0011-T336	TEESVPOG336M8R	CAPACITOR TANTALUM	1
MAT-HE0007-T002	TF16SN0.315TTD		1
MAT-LB0008-T002	VLF3010AT-100MR49-T	CHOKE COIL	1
MAT-PP0014-A001	GP-KM2001VHN	LENS ASS'Y	1
MAT-YA0039-A001	GP-KM2001VMN	MCM ASS'Y	1
MAY-DB0007-B001	RECEIVERASSY		1
MAT-PE0039-M001	LTM022D600	LCD MODULE	1
MAT-PE0041-M001	RB311	LCD MODULE	1
MAT-PM0019-A001	NY-11A-4	LED MODULE	1
MAT-PM0020-A001	NY-11B-2	LED MODULE	1
15T-800201	800201	UPPER BOARD PWB	1
MAY-YD0086-T001	NL27WZ32USG		1
MAT-YC0170-T001	R3112D311C-TR-FB		1
MAT-YC0171-T001	HD74LV1G86AVSE		1
MAT-VD0010-0001	VDZ FST4R 8.2B		1
MAT-CA0006-T021	CC0603CH560J16	CAPACITOR, CERAMIC	2
MAT-RA0003-T061	CR20B332J	RESISTOR	1
MAY-SH0001-0001	SLAS4684FCT1G		1
MAY-VA0012-T001	MA27D2900L		1
MAS-CA0010-T012	GRM36CH060D50T	CAPACITOR, CERAMIC	3
MAT-CA0006-T001	CC0603CK0R5C25	CAPACITOR, CERAMIC	1
MAT-LA0015-T002	LQW18AN3N6C00D21	COIL, LEADLESS	1
MAS-LA0005-T011	LL1005-FHL6N8J	COIL, LEADLESS	1
MAS-CA0010-T040	GRM36CH101J50T	CAPACITOR, CERAMIC	1
MAT-CA0006-T004	CC0603CK2R0C25	CAPACITOR, CERAMIC	2
MAT-CA0006-T006	CC0603CH4R0C25	CAPACITOR, CERAMIC	1
MAT-CA0006-T002	CC0603CK1R0C25		3
MAT-LA0016-T011	LQW15AN12NH00D21	COIL, LEADLESS	1
MAT-LA0016-T014	LQW15AN22NH00D21	COIL, LEADLESS	1
MAT-LA0016-T012	LQW15AN15NH00D21	COIL, LEADLESS	1

MAT-LA0016-T009	LQW15AN9N1H00D21	1
MAT-LA0016-T006	LQW15AN6N2C00D21 COIL, LEADLESS	1
MAT-LA0016-T020	LQW15AN8N2H00D21	1
MAY-FE0051-T001	1960MHZ FILTER,SAW	1
MAY-FE0050-T001	1842.5MHZ SAW FILTER	1
MAY-FE0049-T001	942.5MHZ FILTER,SAW	1
MAT-FE0032-T001	881.5MHz FILTER,SAW	1
MAT-YA0038-T001	ASWMF46KGACAT	1
MAS-LA0005-T007	LL1005-FHL3N3S COIL, LEADLESS	1
MAS-LA0005-T004	LL1005-FHL1N8S COIL, LEADLESS	1
MAS-LA0005-T010	LL1005-FHL5N6S COIL, LEADLESS	1
MAS-LA0005-T006	LL1005-FHL2N7S-T	1
MAS-LA0005-T009	LL1005-FHL4N7S-T	1
MAS-LA0005-T008	LL1005-FHL3N9S-T	1
MAS-CA0010-T014	GRM36CH080D50T CAPACITOR, CERAMIC	1
MAT-LA0015-T009	LQW18AN7N5D00D21	1
MAT-BL0012-A001	404008A01S バイブモータ	1
MAY-BH0010-A001	5.4V 650MA AC ADAPTER	1
15T-002699	SHIELD(ENIF)	1
15T-002700	SHIELD(SH)	1
15T-002701	HOOK	1
15T-002291	ONBOARD CONTACT	2
15T-900916	S/N LABEL(5 × 9.5)	1
15T-002702	SHIELD(DSP)	1
15T-002676	HOLDER(DSP)	1
15T-002744	SPACER(DSP)	1
15T-002703	SHIELD(TRX2)	1
15T-002704	SHIELD(TRI)	1
15T-002705	SHIELD(MEM)	1
15T-002706	SHIELD(GEM)	1
15T-002707	SHIELD(MEL)	1
15T-900812	S/N LABEL	1
15T-002672	METAL DOME SHEET	1
15T-002697	BLIND SHEET	1
15T-002654	FRONT CASE(R)	1
15T-002655	FRONT CASE(M)	1
15T-002698	HINGE UNIT	2
15T-002693	NET(REC)	1
15T-002656	REAR COVER(R)	1
15T-002690	CUSHION(C)	1
15T-002017	WATER SENSITIVE LABEL	1
15T-002657	REAR COVER(M)	1
15T-002834	CUSHION(SP)	1
15T-001684	WATER SENSITIVE LABEL	1
15T-002659	COVER(B)	1
15T-002660	SCREEN(F)	1
15T-002666	SCREEN(C)ASSY	1
15T-002671	SIDE KEY	1
15T-002673	LENS(IR)	1
15T-002677	PLATE(LOGO)	1
15T-002678	COVER(SD)	1
15T-002679	COVER(SHF)	1
15T-002680	COVER(I/O)	1
15T-002681	PLATE(R)ASSY	1
15T-002686	SEAL(RR)	1
15T-002687	SEAL(MR)	1
15T-002688	CAP(RF)	1
15T-002689	CUSHION(1)	2
15T-002691	CUSHION(F)	1
15T-002692	CUSHION(R)	1
15T-002694	PROTECTOR SHEET(F)	1
15T-002695	PROTECTOR SHEET(R)	1
15T-002696	WARRANTY LABEL	1
15T-002067-03	TAPPING SCREW	8
15T-001829	MAGNET	1
15T-002658	COVER(BATT)	1
15T-002841	SPACER(FPC)	1
15T-002840	SHIELD SHEET	1
MAS-BD0024-B001,C001	3.7V 1000MAH BATTERY,LITHIUM SECONDARY	1
15T-002***	LABEL(IMEI)	1
15T-002661-**	SCREEN(R)ASSY	1
15T-002670-**	KEY SHEET	1
15T-002684-**	PLATE(M)	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.

- Command line of PC input ' TestModeOn '
 : testmode

- 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

- Command line of PC input
 ' SetRamp,745,115,115,115,115,115,115,115,115,217,351,497,626,714,745,745,745,745,714,626,
 497,351,217,115,115,115,115,115,115,115,115,115,115, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
 : Tx on at PCS1900
 ' SetRamp,460,115,115,115,115,115,115,115,115,141,209,299,382,439,460,460,460,460,439,382,299,
 209,141,115,115,115,115,115,115,115,115,115,115,115,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
 : Tx on at GSM850

- Command line of PC input ' ContTxOff
 : Tx off

- 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>, 		
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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