

PRE-BOOT Display

G	P	S		1	.	X		B	.	V	E	L	L	E	
(	C	)	2	0	0	8		P	6	y	8	A			

Displayed for 2s

X: Minor version number

Y: 2 or 4 depending on used PIC model

MODE after Pre boot

	X	X	X	X		S	T	A	R	T					
	Y	Y	Y	Y	/	Z	Z		T	C	X	0			

Displayed for 2s

XXXX: Cold or Hot

YYYY: BIN or NMEA

ZZ: MT or RC or Nothing

DISPLAY generic format - TCX0 mode

PPS	GPS other information
PPS	CX0 Other information

DISPLAY generic format - GPS only mode

PPS	GPS status information
PPS	GPS date & position information

ERROR Messages

	Message													
*		G	P	S		N	o		L	i	n	k		
-		C	X	0		N	o		L	i	n	K		

RESET

Hot Start / Cold Start

No XXX Link

with XXX = Link Error

or XXX = CR Error

GPS MOTOROLA STATUS

		VIS			TRK			STS			ANT			STR	LOC
+		0	9		0	8		B	G		0	K		C	L

VIS: Visible satellites
TRK: Tracked satellites
STS: Status 2D | 3D | PM | PH | BG | AS (Position Hold, Bad Geometry, Acquiring Sat)
ANT: Antenna OK | OC | UC | NV (Over Current, Under Current, No Voltage)
STR: Mode C | H (Cold / Hot)
LOC: Link R (Remote/Local)

GPS NMEA STATUS

		VIS			TRK			STS			QOF			MOD	LOC
+		0	9		0	8		B	G		0	K		C	L

VIS: Visible satellites
TRK: Tracked satellites
STS: Status 2D | 3D | PM | PH | BG | AS (Position Hold, Bad Geometry, Acquiring Sat)
QOF: Fix Q. KO | GF | DF | 1S | RT | FR | ES | MI | SM (GPS, DGPS, 1PPS, RT,...)
MOD: Mode A | M (Manual / Automatic)
LOC: Link R (Remote/Local)

CX0 STATUS

		STS			ALM			DAC (hex)						SIG	SIZ
=		0	K		0	K		0	X	X	X	X		+	C

STS: Status OK | UK | HL | DS (cf VE2ZAZ doc.)
ALM: Alarm OK | UK | V- | V+ | C+ (cf VE2ZAZ doc.)
DAC: DAC voltage (cf VE2ZAZ doc.)
SIG: Sign + | - | = | . (cf VE2ZAZ doc.)
SIZ: Size F | C | . (cf VE2ZAZ doc.)

TIME message

PPS		D	D	/	M	M		H	H	:	M	M	:	S	S
-----	--	---	---	---	---	---	--	---	---	---	---	---	---	---	---

Lat. message

PIC 628

PPS		L	t	:		X	X	X	X	X	X	X			
-----	--	---	---	---	--	---	---	---	---	---	---	---	--	--	--

XXX: Latitude value in hexadecimal

PIC 648

PPS		X		D	d	°	m	m	'	s	s	.	m	m	m
-----	--	---	--	---	---	---	---	---	---	---	---	---	---	---	---

X: N or S

Long. Message

PIC 628

PPS		L	G	:		X	X	X	X	X	X	X			
-----	--	---	---	---	--	---	---	---	---	---	---	---	--	--	--

XXX: Longitude value in hexadecimal

PIC 648

PPS		X	d	d	d	°	m	m	'	s	s	.	m	m	m
-----	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---

X: E or W

Height message

PIC 628

PPS						X	X	X	X	X	X	X			
-----	--	--	--	--	--	---	---	---	---	---	---	---	--	--	--

XXX: Height value in hexadecimal

PIC 648

PPS		X	h	h	h	h	h	h	h	h					
-----	--	---	---	---	---	---	---	---	---	---	--	--	--	--	--

X: + or -