

INSTRUCTION MANUAL

Cygnus Web Tension Control Software Update Procedure

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Introduction

The Cygnus software can be updated, using a PC compatible computer running any version of Windows[®] 95 or higher. The only special cabling is an adapter to connect the Cygnus to a standard RS-232 serial port. This adapter cable may be purchase directly from MAGPOWR.

Required Items

Option 1 (Update via E-mail or Website Download)

- 1. PC with 1 free serial port with Windows[®] 95 or higher operating system (400 MHZ minimum processor speed)
- 2. RS-232 Cable. 9-pin male to female straight cable (can be purchased locally).
- 3. HEXLOAD PC Communications software (Sent via e-mail or downloaded from the MAGPOWR website <u>www.maxcessintl.com</u>)
- 4. CYGNUS firmware (Sent via e-mail or downloaded from the MAGPOWR website www.maxcessintl.com

Option 2 (Update via MAGPOWR Software Upgrade Kit)

- 1. PC with 1 free serial port with Windows[®] 95 or higher operating system (400 MHZ minimum processor speed.)
- 2. MAGPOWR Software Upgrade Kit P/N:
 - 9-pin male to female straight cable
 - CD with HEXLOAD PC Communications software and CYGNUS firmware

PC Software Installation

The HEXLOAD PC software does not require installation. Simply copy the program to any folder and start the program by double clicking its icon. The program does not require any external DLL files or run-time libraries to run. It is recommended that you simply copy HEXLOAD.EXE and the Cygnus firmware to your desktop folder. The HEXLOAD PC software and Cygnus firmware may be in a compressed or ZIP format. You may need to download an additional application such as WinZip from http://www.winzip.com to extract the files.

Connection Procedure

- 1. Turn off the AC power to the Cygnus Web Tension Control.
- 2. Connect the RS-232 adapter to the Cygnus Web Tension Control.
- 3. Use the RS-232 cable to connect the cable adapter to a free serial port on the PC.

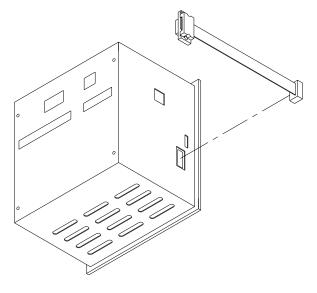


Figure 1 Cygnus with Adapter Cable Installed

Cygnus Flash Programming Procedure

Set the Communications Parameters – Set the communications parameters by selecting the Options/Communications dialog. Set the Baudrate to 115200 baud and the ComPort to the correct port. "Auto" should work for most applications.

	Load V2.14k dit <u>V</u> iew <u>T</u> arg							
File Range CRC Numb Numb			10000 - 10: 1487 411	9B85E	Target			
Area 0001	Adr. 01010000	Len. 0008B8	Gap 5F		tion parameters		E5 88 F0 9F E	5
				<u>C</u> omPort	Com1	Cancel		
Ready								115200 Baud

Open the firmware/hex file – Open the Cygnus hex file with the HEXLOAD program, by selecting the File/Open dialog and browsing for the correct filename.

Open target program file ?	× ×
Look jn: 🔁 Cygnus 💌 🖻 📺 📰	
include	
objs src	
920A81.00.mot	
🖬 cygnus.mot	
~	
File name: 920481.00.mot Open	
Files of type: Target program files (*.hex;*.mot;*.bin)	
	<u>1</u>
Ready	115200 Baud

Turn on the AC Power to the Cygnus – and the target information will appear, if you are connected properly. If no target information appears, please check all your connections, before trying again. Also verify that your baud rate and communications port are set properly.

	Load V2.14k						_ 🗆 ×
1	dit <u>V</u> iew <u>⊺</u> arg	jet <u>O</u> ptions	<u>H</u> elp				
File		-			Target		
Numt	e: ber of bytes: ber of data a ber of record	5E8 5714 reas: 1	487	JB85E	Range(s) CRC Application CPU BTL S/W Version	1010000 - 10FFFEF 0000 Cygnus Apr 16 2003 10:46:56 Magpowr BTL V3.00	
Area	Adr.	Len.	Gap	Data			
0001	01010000	0008B85F		10 00 00	EA 00 FU 3F E3	88 F0 9F E5 88 F0 9F E5	

Program the Cygnus Flash Memory – Select the Target/Auto menu option to begin the programming sequence. The HEXLOAD program automatically sequences through the steps required to program and verify the Flash memory. The programming process takes approximately 2 minutes to complete.

	Target Options Help		8			_
le ange: RC umber of by umber of da umber of re	Check Blank Get Checksum Verify loaded program Verify all bytes Verify Checksum Clear Program MakeValid	F2 F3 F4 F5 F6 F7 F8	B85E	Target Range(s) CRC Application CPU BTL S/W Version	1010000 - 10FFFEF 0000 Cygnus Apr 16 2003 10:46:56 Magpowr BTL V3.00	
ea Adr.	Auto	F9	Data			-
01 01010	<u>S</u> tart Program			EA 88 E0 9E E5	88 F0 9F E5 88 F0 9F E5	

Clearing or Erasing the Flash Memory

HEX Hex	Load V2.14k -	920A8	1.00.m	pt				08:18:
1000 (CO. 1000 (CO. 1000)	dit ⊻iew <u>T</u> arge	et <u>O</u> pti	ons <u>H</u> e	db				
File					Target			
Numb	e: ber of bytes: ber of data ar ber of records	eas:	10100 5E86 57148 1 20411		Range(s) CRC Application CPU BTL S/W Version	1010000 - 10FFF 95B4 Cygnus Apr 16 2 Magpowr BTL V3.00		
Area 0001	Adr. 01010000	Len.	DOLL	Clearing target		X	F0 9F E5	
			3031		50%			11500 David
Ready								115200 Baud

Programming the Flash Memory

File	0	Target		
Range: CRC Number of bytes: Number of data areas: Number of records:	1010000 - 109B85E 5E86 571487 1 20411	Range(s) CRC Application CPU BTL S/W Version	1010000 - 10FFFEF 95B4 Cygnus Apr 16 2003 10:46:56 Magpowr BTL V3.00	
rea Adr. Len. 001 01010000 0008	Programming target		F0 9F E5	
	Constitution (1996)	21%, 120360 of 57	Provide a line part of the second	
		Cancel		

Reading the Checksum or CRC (Cyclic Redundancy Check)

	_oad V2.14k -						08:2
	lit ⊻iew <u>T</u> arg	jet <u>O</u> pti	ions <u>H</u> el	P			
Numb	er of bytes: er of data ar er of record	reas:	101000 5E86 571487 1 20411	00 - 109885E 7	Target Range(s) CRC Application CPU BTL S/W Version	1010000 - 10FFFEF 95B4 Cygnus Apr 16 2003 10:46:56 Magpowr BTL V3.00	
Area 1001	Adr. 01010000	Len. 0008		Reading checksum	of target program	X F0 9F E5	
					75%		
eadv							115200 Baud

Making the Target Valid

File				Target		
Rango CRC Numb Numb	e: er of bytes: er of data area er of records:	1010000 - 1 5E86 571487 11 20411	09B85E	Range(s) CRC Application CPU BTL S/W Version	1010000 - 10FFFEF 5E66 Cygnus Apr 16 2003 10:46:56 Magpowr BTL V3.00	
Irea	Adr. L	en. Gap	Data			
			1D 07	arget has been made valid !		

Start the Cygnus Application Software - If the checksum or CRC, from the file and target sections match, you can use the Target/Start Program menu item to start the Cygnus application for the first time. Also, you can exit the HEXLOAD program and cycle the AC power to the Cygnus. If the checksum did not match, repeat the programming process a second time. If the checksum still does not match after a second programming attempt Contact the factory for further assistance since the program has not properly installed.

ile	Check <u>B</u> lank	F2		Target		
lange: CRC Jumber of by Jumber of da Jumber of re	Get Checksum Vgrify loaded program Verify all bytes Verify Checksum Glear Program MakeValid	F4 F5 F6 F7 F8	B85E	Range(s) CRC Application CPU BTL S/W Version	1010000 - 10FFFEF 0000 Cygnus Apr 16 2003 10:46:56 Magpowr BTL V3.00	
rea Adr.	Auto	F9 -	Data			
001 01010	<u>S</u> tart Program		10 00 00	E4 00 E0 0E EE		
	Developed	.0	10 00 00	EA 88 FU 9F E5	88 F0 9F E5 88 F0 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back	-1	10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 97 E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	
	<u>R</u> ead back		10 00 00	EA 88 FU 9F E5	88 FU 9F E5 88 FU 9F E5	



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