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WELD THE WORLD

Power Pulse 400-500 Power Pulse 402-502 Power Pulse 322T-402T-502T Power Pulse 322AC/DC-402AC/DC-502AC/DC WF-104, WF-108 RC-104, RC-204, IR-01 Pioneer Pulse 321MSR, Pioneer 321 Pulse Micro Pulse 302MFK

Software update manual

GB



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KEY

This pictogram warns of danger of death or serious injury.

WARNING!

DANGER!

This pictogram warns of a risk of injury or damage to property.

• This symbol identifies an action that occurs automatically as a result of a previous action.

NOTE

The figures in this manual are purely guideline and the images may contain differences with respect to the actual equipment to which they refer.



1 INSTALLATION OF THE SOFTWARE ON THE PC

1.1 SOFTWARE UPDATE KIT CONTENTS

	Code 010.0000.0037	Complete software update kit
	Code 022.00002.0178	RS232-RS232 communication cable
	Code 022.0002.0152	RS232-microfit 8 pin communication cable
	Code 022.0002.0153	RS232-minifit 8 pin communication cable
	Code 006.0002.0041	USB/RS232 adapter
WECO WED WECO WILL IN MORE	Codice 010.0000.0065	USB software

1.2 PREPARATION

- 1. Power on the PC.
- 2. Connect the USB/RS232 adapter to the PC.
- 3. Load the CD and install the USB/RS232 adapter driver. The installation procedure varies in accordance with the adapter model supplied. Follow the drivers installation procedure shown on the CD.
- Load the CD with the software of the unit to be updated. (The files can be sent on request by e-mail in <u>.rar</u> or <u>.zip</u> compression format)
- Install the FME-FLASHPROG-V4.5 program by double left-clicking on the following icon:
- 6. Once the installation procedure is complete, the program installation folder (C:\FME_FR_Programmer by default) will contain the following icon:

(For the sake of convenience copy a link to the file on the desktop).



1.3 SETTING THE PC COMMUNICATION PORT

- 1. Connect the USB-RS232 adapter to the PC.
- 2. Identify the number of the communication port in which the adapter is inserted as described below:

1.3.1 PROCEDURE WITH WINDOWS XP OPERATING SYSTEM

Internet Mozilla Firefox	🄗 Documenti			
Microsoft Office Word 2007	🕜 Documenti recenti 🤌 Immagini	•		
Microsoft Office Excel 2007	Risorse del computer	Anri	— а-	RIGHT-CIICK ON MY COMPUTER.
	🧐 Risorse di rete	Esplora Cerca		
	🚱 Pannello di controllo	Gestione		
	Impostazioni accesso ai programmi	Scansione Anti-Virus		
Collegamento a iexplore	🥁 Stampanti e fax	Disconnetti unità di rete		
Blocco note	Guida in linea e supporto tecnico	 Visualizza sul desktop Rinomina 		
	Derca	Proprietà		
Tutti i programmi 🕟	C Esegui		b-	Left-click on PROPERTIES.
2	🙎 Disconnetti 🛛 💽 Chiudi session	e		
🦺 start 🛛 🕹 🙆 🕥	Manuale_Programma			
Proprietà del sistema	•	23		Open the SYSTEM PROPERTIES window.
Ripr	istino configurazione di sisten	na		
Aggiornamenti auto	omatici Cor	nnessione remota		
Generale Nom	e computer Hardwa	ire 🗲 Avanzate	c-	Select the HARDWARE tab.
Gestione periferiche —				
Gestione perif	eriche visualizza un elenco d allate nel computer. Utilizzare	i tutte le periferiche Gestione		
periferiche pe	r modificare le proprietà delle	periferiche.		
	<u>G</u> estio	one periferiche ┥	— d-	Left-click on DEVICE MANAGER.
Driver				
La firma driver	r consente di verificare che i (no compatibili con Windows \	driver che si Windows Undate		
consente di c	onfigurare la connessione a V	Windows Update		
Firma	driver Wind	dows Update		
Profili hardware	are concentono di impostare s	memorizzare		
diverse config	jurazioni hardware.	e memonzzare		
	Pro	61 hardware		
		nnulla <u>A</u> pplica		





- The DEVICE MANAGER window will appear.
- Left-click the
 PORTS (COM and LPT) button.
- Check the number of the USB SERIAL PORT.
- Make a note of the number.
- Close the window by pressing this button:



1.3.2 PROCEDURE WITH WINDOWS 7 OPERATING SYSTEM









1.4 PROGRAMMING SETTING

📽 FME FR-Flashprogrammer V4:5.8 Build 3	3. Start the previously installed FLASHPRG program by double left-
Connect via COM-Port 7 no. of attempts : 500 Prog Baudrate : 115200	clicking on the following icon:
Disconnect Device Type : MB91F364G	 → The FLASHPRG program window will appear.
Automatic Options Signals	1
File to program : Browse	
Connect Dump Flashloader	
Automatic Mode Start Flashloader	
Initialize Flashmode Blank Chack	
Erase flash, if necessary	
Program flash and verify	
Call application at address	
THIS SOFTWARE IS PROVIDED AS IS AND IS SUBJECT TO ALTERATIONS.	
FOR ANY ERRORS OR ELIGIBILITY FOR ANY PURPOSES.	
ready	
~	
🖉 Abort 🛛 Quit	1
3. Enter the number of the USB SERIAL CONTROLLER port display	ed
previously in the DEVICE MANAGER window in the VIA COM-POF	R^{T}_{A} Type the number 500 in the NO OF ATTEMPTS field
field.	
a FME FR-Flashprogrammer V4.5.8 Bizild 3	
Connect via COM-Port 7 no. of attempts : 500 Prog Baudrate : 115200	5. Type the number 115200 in the PROG BAUDRATE field.
Disconnect Device Type : Must 1 June 1	
1	



2 PROGRAMMING THE UNIT



WARNING!

Before starting the programming procedure disconnect the welding cables from all the unit's welding sockets. Failure to comply with this instruction can result in serious damage to the programming controller.

- 1. Set the welding power source ON/OFF switch to "O" to switch the unit off.
- 2. Use the RS232-RS232 communication cable to connect the USB/RS232 adapter to the unit's RS232 serial port.

INFORMATION
If the unit is not equipped with an external RS232 connector for software updates the connection can be made directly to the internal circuit boards to perform the programming procedure.
See § 2.2 PROGRAMMING VIA CONNECTOR DIRECTLY ON THE CIRCUIT BOARDS

2.1 PROGRAMMING VIA RS232 SERIAL PORT

Depending on the type of unit make a connection between the PC and programming connector as described below.

2.1.1 400 POWER PULSE - 500 POWER PULSE: RS232 CONNECTOR

COM1: Programming connector for the process circuit board. (For programming with the following software: 500_PULSATO_COM1_..._.mhx)



2.1.2 WF-104: RS232 CONNECTOR

COM2: Programming connector for the motor circuit board. (For programming with the following software: WF104_COM2_..._.mhx)



2.1.3 321 POWER PULSE: RS232 CONNECTOR





2.2 PROGRAMMING VIA CONNECTOR DIRECTLY ON THE CIRCUIT BOARDS

Â	DANGER!
	Maintenance procedures must be carried out by qualified technical personnel.
No net	Disconnect the unit from the mains power supply before opening it and before performing any maintenance procedures.
	Wait at least 5 minutes after switching off the unit before opening it to gain access to internal electrical parts. Even when the unit is disconnected from the electrical mains the interior parts may carry dangerous electrical voltages due to the energy retained by the capacitors. Use a multi-tester to check on the electrolytic capacitor terminals that the residual voltage is below 60 Vd.c. before touching any electrical parts.
	When the unit is switched off after a long period of duty, some internal parts may be hot.
	Electronic components of the unit are susceptible to damage due to static electricity. Wear an antistatic wrist strap before handling electronic circuit boards.

Depending on the type of unit make a connection between the PC and programming connector as described below.

2.2.1 400 POWER PULSE - 500 POWER PULSE: CIRCUIT BOARD 050.0001.0080

- 1. Disconnect the unit from the mains power supply.
- 2. Connect communications cable P/N 022.0002.0153 to connector CN2 on circuit board P/N 050.0001.0080.



Communication cable P/N 022.0002.0153



Circuit board P/N 050.0001.0080



CN2: Programming connector for the process circuit board. (For programming with the following software: 500_PULSATO_COM1_..._mhx)

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2.2.2 WF-104: CIRCUIT BOARD 050.0001.0078

- 1. Disconnect the unit from the mains power supply.
- 2. Connect communications cable P/N 022.0002.0152 to connector CN2 on circuit board P/N 050.000x.0078.

INFORMATION

With circuit board P/N 050.0001.0078 insert cable P/N 022.0002.0152 using caution to ensure the tab of the connector is facing the flat cable and that all the pins are inserted.



Circuit board P/N 050.0001.0078

Circuit board P/N 050.0002.0078



2.2.3 RC-104: CIRCUIT BOARD 050.0001.0078

- 1. Disconnect the unit from the mains power supply.
- 2. Connect communications cable P/N 022.0002.0152 to connector CN2 on circuit board P/N 050.000x.0078.

INFORMATION

With circuit board P/N 050.0001.0078 insert cable P/N 022.0002.0152 using caution to ensure the tab of the connector is facing the flat cable and that all the pins are inserted.

CN2: Programming connector for the motor circuit board. (For programming with the following software: RC104_COM2_..._.mhx)



Communication cable P/N 022.0002.0152





Circuit board P/N 050.0001.0078

Circuit board P/N 050.0002.0078





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FME FR-Flashprogrammer V4.5.8 Build 3		7. Set the welding power source ON/OFF switch to "I" to switch on the
Connect via COM-Port 7 no. of attempts : 500 Prog Baudrate : 1152 Disconnect Device Type : MB91F364G	200 •	unit. ● The programming stage now starts…
Automatic External Flash BootROM_Functions Flash_Functions Options S File to program : P:	ignals	
Checking Blank Check finished Sending download command programming P:\ SCAMBIO DATI\Mirco\500_ACDC.mhx loading and programming completed Automode finished. COM port closed automatically disconnect @ Abort	Quit	8. When programming is completed press the QUIT button. 9. Close the window by pressing this button: ⊠
automatically disconnect !	11	1
	والمعاملات	

10. Set the welding power source ON/OFF switch to "O" to switch the unit off.

- 11. Disconnect the communication cable from the unit's RS232 connector.
- 12. Reset the unit (refer to procedure set down in the unit's manual).

The reset procedure involves complete restoration of the default values, parameters and memory settings set in the factory.

All memory locations will be reset and hence all your personal welding settings will be lost!



2.3 ERRORS DURING THE PROGRAMMING PROCEDURE



Communication port not recognized.

- Disconnect the USB/RS232 adapter from the PC port, wait 30 seconds and then reconnect it.
- Make sure you have entered the correct number of the USB SERIAL PORT in the VIA COM-PORT field.

The value entered in the PROG BAUDRATE field is too high. - Set the value to 9600.

Data communication disturbance.

 Electromagnetic fields due to HF discharges or on-going welding operations can cause interference on data communications. Program the unit in an area well away from such sources of interference.

Communication cannot be established with the unit to be programmed. - Make sure the unit is powered on.

- Check to ensure the cables between the PC and the unit are connected correctly.





