



SPP & SPP VISUAL PROGRAMMER

Sollatek Product Programmer and Programming Software

USER MANUAL

Important: This manual contains important safety instructions. Before using this product, please read all instructions carefully. Keep this manual handy for reference.

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1. SPP DEVICE

1.1 DESCRIPTION

The Sollatek Product Programmer (SPP) is a USB device that allows the user to update the firmware and settings of Sollatek products without the need of connecting the device to a computer. The firmware for the desired device is uploaded to the SPP from your computer via the SPP Visual Programmer. Once uploaded, the SPP can then be used to program devices in situ. The SPP can program approximately 2000 devices on a single charge.

1.2 SPECIFICATION

Battery Type	Rechargeable Lithium polymer
Battery Nominal Voltage	3.7 V
Battery Capacity	165 mAh
Program Operations Per Charge	Approx. 2000 programs
LED	3 x LEDs 1 x Programming Status ; 1 x Charging Status ; 1 x Error
Push Button	Target Device Programming
To Computer	USB Туре А
To Device	Mini USB-A
Unit Dimensions	98.0 x 31.0 x 16.0 mm
Unit weight	35 g

1.3 SPP OVERVIEW



1	USB Connector & Cap
2	Battery LED
3	Program Button
4	Programming LED
5	Error LED
6	Mini-USB Connector & Cap

1.4 LED INDICATORS

LE	Ds	Description	
Øþ	\square	SPP is OFF	-
O		Data Transfer in Progress	KEY
O		Data Transfer Successful	
G>	Å	Data Transfer Error	Flashing
O	Δ	Low Battery - Recommend Recharging	
	4	Battery Charging	-

1.5 DEVICE COMPATIBILITY

SPP02	FTB*, FDEx2*, FCAx3*, FCR*, FCZ*, FDM3**, FDM4(S), FDM5(S), FSP(E)
SPP03	JEA, JEAc, FFA, GMC0, GMC1, GMC2

*Controller configuration interface can also be used to upload firmware files to the SPP for those specific controllers. Refer to the controller manual for more details.

** Can also be selected if updating the preceding model FFD.



1.6 CHARGING THE SPP

The SPP has a 3.7v, 165mAh rechargeable lithium polymer battery. On a single charge, approximately 2000 devices can be programmed. The SPP can be charged by connecting the SPP to a computer or a 5 V USB plug.



CAUTION! RISK OF EXPLOSION

It is not recommended for users to replace the battery so please contact Sollatek. The replacement battery should be of the same type.

Dispose of the used batteries according to national standards and directives.

Connect to your computer

- 1. Connect the SPP to your computer's USB port.
- 2. The $\frac{1}{2}$ LED on the SPP (LED closest to the USB connector) will turn ON.

Connect to a power adapter

- 1. Connect the SPP USB connector to the USB plug.
- 2. Connect the power adapter to the socket and turn it ON.
- 3. The $\frac{4}{7}$ LED on the SPP (LED closest to the USB connector) will turn ON.

2. SPP VISUAL PROGRAMMER

2.1 SYSTEM REQUIREMENTS

The SPP Visual Programmer is compatible only with Windows computers. The minimum operating system required to run the software is Windows 7 or higher.

2.2 SOFTWARE INSTALLATION



- 1. Download the software from the link provided by Sollatek. Follow any security notifications to allow your PC to install the software.
- 2. The installer wizard window will appear on the screen. Click **Next** to continue.

Choose Setup Type Choose the setup ty	pe that best suits your needs	Ready to Install The Setup Wizard is ready to begin the SPP Visual Programmer Installation
67	Typical Justalls the most common program features. Recommended for most users.	Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the woard.
	Cystom Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users.	
5	Cgmplete All program features will be installed. (Requires most disk space)	
dvanced Installer	< Back Net > Cancel	Advanced Installer

3. Select the setup type.



2.2 SOFTWARE INSTALLATION (CONTINUED)

4. Click Install to continue. Follow any security notifications to allow your PC to install the software.

🗊 SPP Visual Programmer Setup	X SPP Visual Programmer Setup X
Installing SPP Visual Programmer	Completing the SPP Visual Programmer Setup Wizard
Please wait while the Setup Wizard Installs SPP Visual Programmer. This may take several minutes.	Click the "Pinish" button to exit the Setup Wizard.
Advanced Installer < Back Next > Cancel	I Cancel

- 5. The software will then start being installed. Progress will be indicated on the status bar within the wizard. Installation is usually very quick.
- Once the software has been installed, click Finish to close the wizard window. The program shortcut will be 6. saved on your desktop.
- 7. The SPP Visual Programmer can be opened by searching in the start menu or clicking on the desktop shortcut.



1. Device	Select the device to be programmed. For each device the programmer required will be displayed.
2. File Types	Select the file to be uploaded to the SPP device. Different devices require different file types to be uploaded for the device to be reprogrammed fully. Some devices require more than one file type.
3. Program SPP Button	Upload the current files to the SPP device
4. Status Bar	Indicates the progress of the upload.





PPVisualPr

grammer.exe

2.4 UPLOADING FIRMWARE TO THE SPP DEVICE

Note: Images for reference only. The manual uses SPP02 and FCAx3 as an example.

- 1. Plug the SPP into your computer's USB port. If plugging in for the first time please wait for all the drivers to be installed before proceeding, this may take several minutes.
- 2. Select the Sollatek device to be programmed by clicking **«** or **»** to toggle through the list of devices.

CDD Vigual	Programmer			Program Memory	Boot Loader
511 113001			FCAx3	Yes	
	Sollatek		FCR	Yes	
			FCZ	Yes	
			FDEx2	Yes	
~	And I	»	FTB	Yes	
			FDM3	Yes	
	SPP02 - FCAx3		FDM4(S)	Yes	
			FDM5(S)	Yes	
	Select Program Memory File		FSP(E)	Yes	
	Select Boot Loader File		JEA	Yes	Yes
			JEAc	Yes	Yes
	Select Options File		FFA	Yes	
			GMC0	Yes	
	Select Data Memory File		GMC1	Yes	
			GMC2	Yes	

3. Click on the file button of the file type to be uploaded. The table above shows the file types required for each device.

튵 Opening Program Memory File							×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare > This PC > Wind	lows (C:) > Users > Deskt	op	~	C X	Search Desktop		
Organise 👻 New folder					≣ •		•
🗸 🛄 This PC	Name	Date	Туре	Size	Tags		
> 🛅 Desktop	FCAx3 Firmware	21/04/2023 15:15	S19 File	19 KB			
> 📑 Documents	FCAx3 Firmware_op	31/03/2015 18:49	S19 File	1 KB			
> 🛓 Downloads							
> 🕑 Music							
> 🔀 Pictures							
> 🔝 Videos							
> 💾 Windows (C:)							
> 📻 Fdrive (F:)							
> 💼 Logistics & Marketing (L:)							
> PDrive (P:)							
Derenal Packun (Or)							
File name: FCAx3 Firmwar	re			~ s1	19 files (*.s19)		~
					Open	Cancel	

4. Select the required file from the file directory.



2.4 UPLOADING FIRMWARE TO THE SPP DEVICE (CONTINUED)



5. Click the **Program SPP** button to upload the file to the SPP device. Click **Yes** to confirm and proceed with the upload.



- 6. Upload progress will be indicated in the status bar.
- 7. A success message will pop up. Click **OK** to close the window.
- 8. Unplug the SPP from the computer. The SPP device is now ready to program other devices.



2.5 PROGRAMMING THE DEVICE



WARNING!

Isolate the supply before programming. Failure to do so can result in damage to equipment and electrical shock. Device programming is to be carried out by trained personnel only.

- 1. Connect the mini-USB connector of the SPP device to the mini-USB port on the extension cable.
- 2. Connect the extension cable to the Data port on the device (refer to the device manual for terminal identification).
- 3. Press the button on the side of the SPP02 programmer. The 🗇 LED will light up and will remain on as the device is being programmed.
- 4. On completion, the 🗇 LED will start flashing and turn OFF.
- 5. Unplug the SPP02 and extension cable from the device. The device is now ready for use.

3. TROUBLESHOOTING

3.1 WINDOWS RECOGNISING SPP COM PORT

In some circumstances, the SPP may not be recognised by the programmer application when connected to the computer.

1. Ensure the SPP is plugged into your computer. Open **Device Manager** which can be found either by searching the start menu or from the control panel.



2. Expand the Ports (COM & LPT) menu by clicking on the arrow on the left-hand side. The SPP will appear in the list titled USB Serial Port (COM#).

Seneral Port (CUM4) Properties	COM Port Number: COM4	•	ОК
	USB Transfer Sizes		Cancel
Bts per second: 9600 •	Select lower settings to correct performance problem	is at low baud rates.	Defaults
Data bite: 8 ·	Select higher settings for faster performance.		E
Party: None -	Receive (Bytes): 4096	•	
Stop bits:	Transmit (Bytes):	-	
Bis control (Name			
Dow control. (Home	BM Options	Miscellaneous Options	
Advanced Bestore Defaults	Select lower settings to correct response problems.	Serial Enumerator	1
	Latency Timer (mear):	Serial Printer	1
	Lotency time (mocy.	Cancel If Power Off	1
	Timeouts	Event On Surprise Removal	1
	Minimum Read Timeout (msec):	Set RTS On Close	1
		Stable Mader Childs Church a	

- 3. Right-click on the header and select **Properties** from the menu.
- 4. Click the Advanced button in the Port Settings tab.
- 5. Select a COM port from the drop-down list, and then **Ok** to confirm changes and close the window.



3.2 SPP NOT CONNECTED MESSAGE

If the Program SPP button is pressed when the SPP is not connected or the SPP is not fully inserted into the computer, you will get the below error message.



- 1. Close the error message by clicking Ok.
- 2. A second error message will appear. Click Ok to close the message.

3. Connect the SPP to your computer and ensure the SPP is fully inserted into the USB port and try programming again. Note: If the SPP is plugged into your computer and you still get this message, check the computer recognises the SPP by following the steps in section 4.1.

3.3 FAILED PROGRAMMING

If a miscommunication occurs when uploading files to the SPP or programming the target device the red error LED will flash on the SPP, and if connected to your computer, the below error message will appear.

Keyfob Programming	Keyfob Programming
SPP02 was not programmed successfully with options header!	SPP02 was not programmed successfully with program memory s19 file!
ОК	ОК

- 1. Disconnect the SPP from your computer or the target device. If connected to your computer, close the error message by clicking Ok and then close the SPP visual programmer by clicking the X at the top of the window.
- 2. Reconnect the SPP to your computer of the target device. If connected to your computer, reopen the SPP Visual Programmer.
- 3. Try uploading files to the SPP from your computer again.

Note: In most cases trying again will resolve the problem. If this does not work, then please contact Sollatek.



4. VERSION HISTORY

VERSION	DATE COMPLETE	DESCRIPTION	REVIEWED BY
1.0	18/12/2019	Initial Version	Ziad Azzabi
2.0	29/06/2023	Reformatted and all sections updated	Neville Barreto



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Product specifications and other information in this manual are subject to change without prior notice to make improvements.

The information in this document has been carefully checked and is believed to be accurate. Nevertheless Sollatek assumes no responsibility for any errors or omissions.

RGB 29/06/2023

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