



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

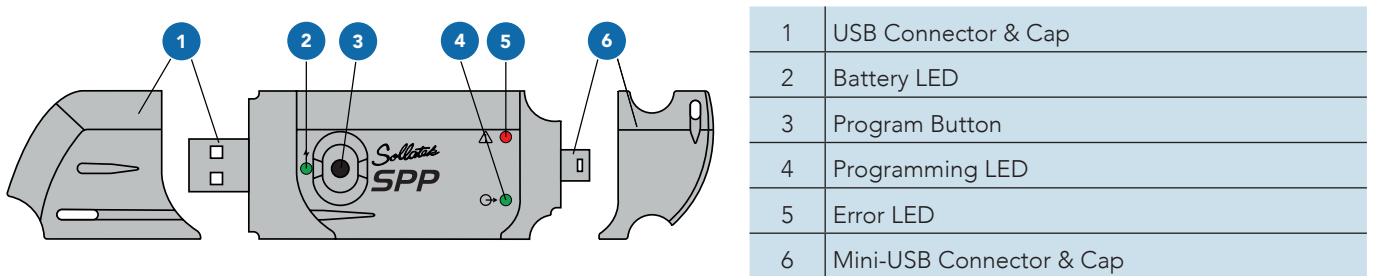
1.1 DESCRIPTION

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

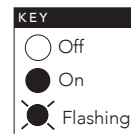
Battery Type	Rechargeable Lithium polymer
Battery Nominal Voltage	3.7 V
Battery Capacity	165 mAh
Program Operations Per Charge	Approx. 2000 programs
LED	3 x LEDs 1 x Programming Status ; 1 x Charging Status ; 1 x Error
Push Button	Target Device Programming
To Computer	USB Type A
To Device	Mini USB-A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

1.3 SPP OVERVIEW



1.4 LED INDICATORS

LEDs	Description
	SPP is OFF
	Data Transfer in Progress
	Data Transfer Successful
	Data Transfer Error
	Low Battery - Recommend Recharging
	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 ⚡ LED on the SPP (LED closest to the USB connector) will turn ON.

Connect to a power adapter

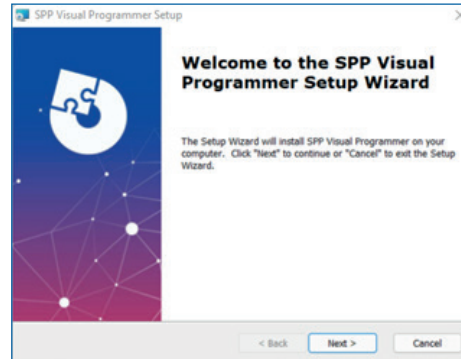
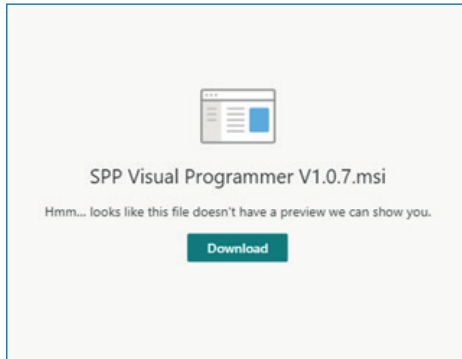
1. Connect the SPP USB connector to the USB plug.
2. Connect the power adapter to the socket and turn it ON.
3. The ⚡ LED on the SPP (LED closest to the USB connector) will turn ON.

2. SPP VISUAL PROGRAMMER

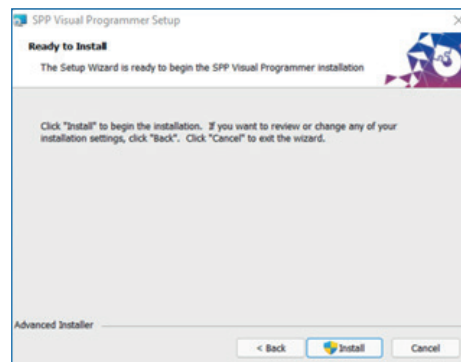
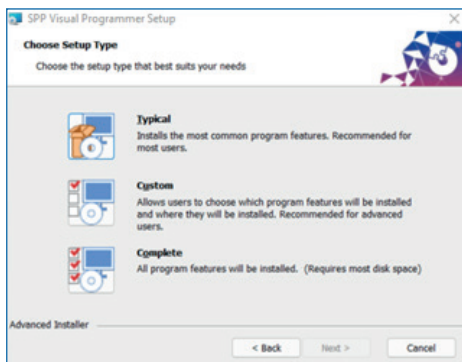
2.1 SYSTEM REQUIREMENTS

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.

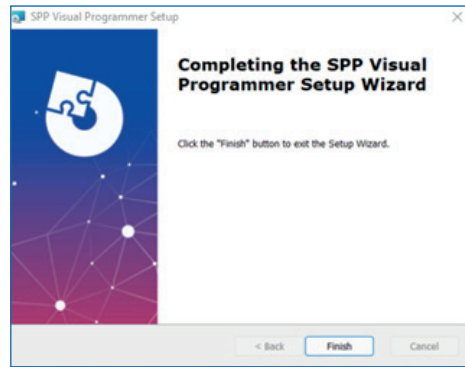
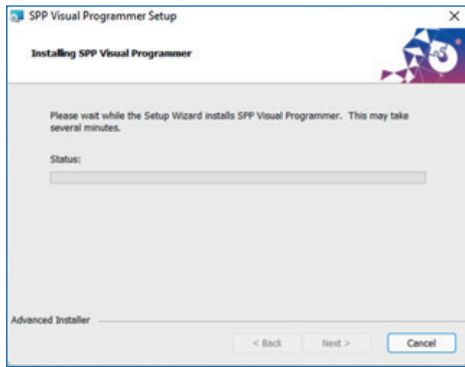


3. Select the setup type.



2.2 SOFTWARE INSTALLATION (CONTINUED)

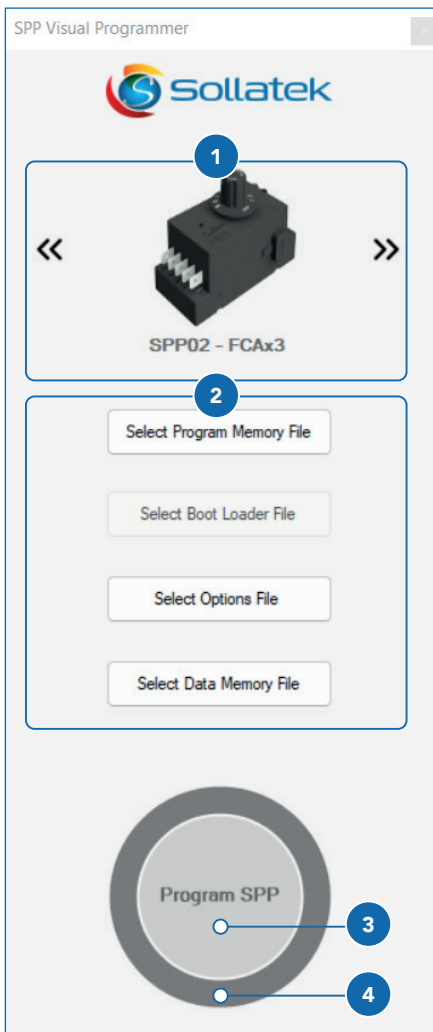
4. Click **Install** to continue. Follow any security notifications to allow your PC to install the software.



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



2.3 SPP VISUAL PROGRAMMER OVERVIEW



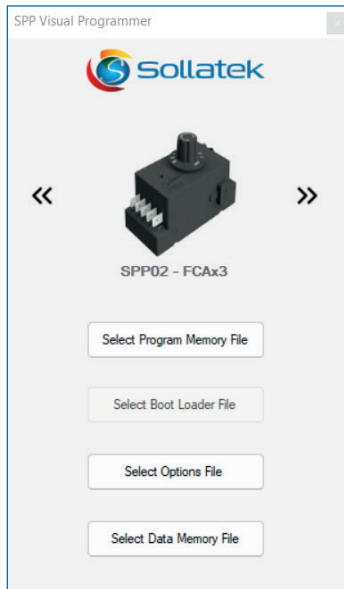
1. Device	Select the device to be programmed. For each device the programmer required will be displayed.
2. File Types	Select the file to be uploaded to the SPP device. Different devices require different file types to be uploaded for the device to be reprogrammed fully. Some devices require more than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



2.4 UPLOADING FIRMWARE TO THE SPP DEVICE

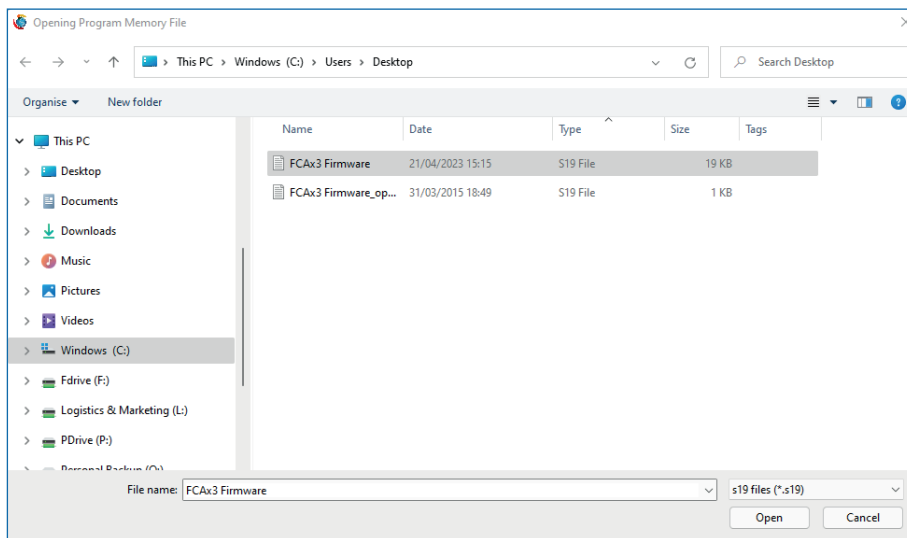
Note: Images for reference only. The manual uses SPP02 and FCAx3 as an example.

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.



	Program Memory	Boot Loader
FCAx3	Yes	
FCR	Yes	
FCZ	Yes	
FDEx2	Yes	
FTB	Yes	
FDM3	Yes	
FDM4(S)	Yes	
FDM5(S)	Yes	
FSP(E)	Yes	
JEA	Yes	Yes
JEAc	Yes	Yes
FFA	Yes	
GMC0	Yes	
GMC1	Yes	
GMC2	Yes	

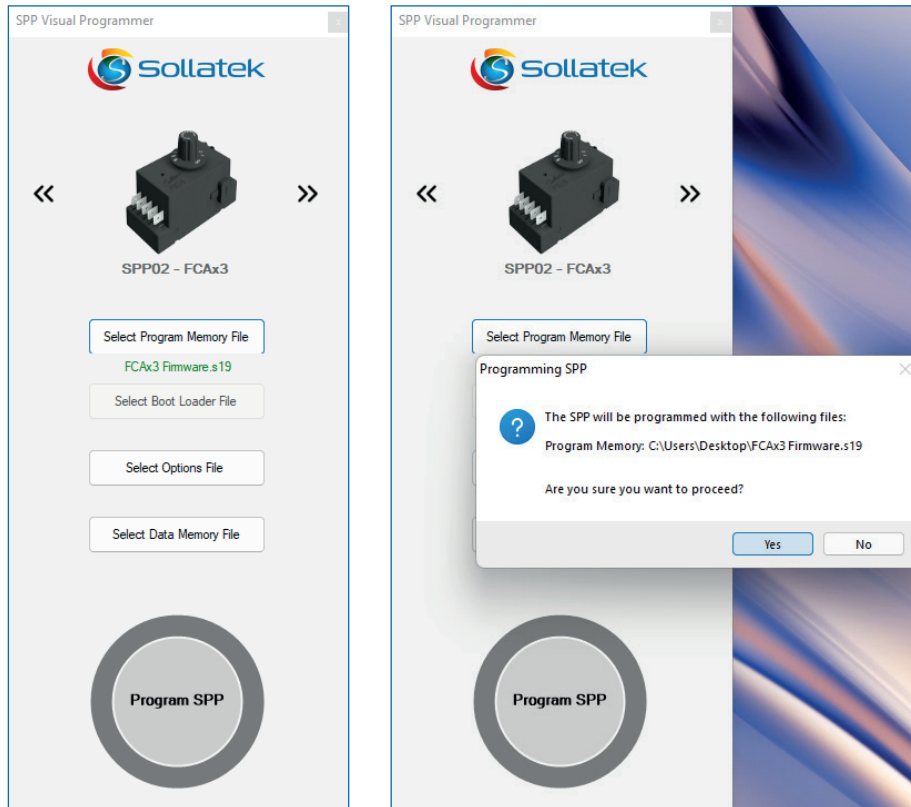
3. Click on the file button of the file type to be uploaded. The table above shows the file types required for each device.



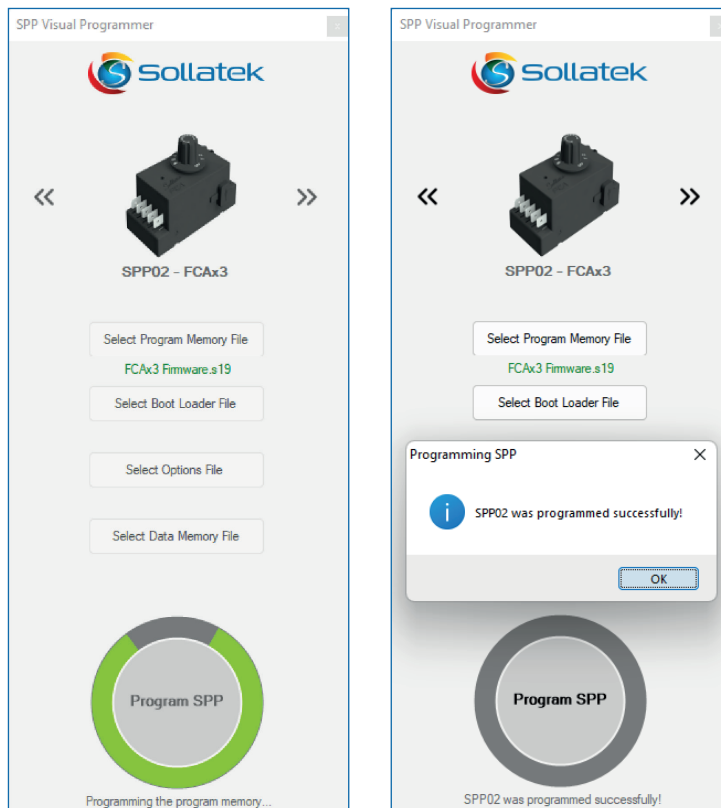
4. Select the required file from the file directory.



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.

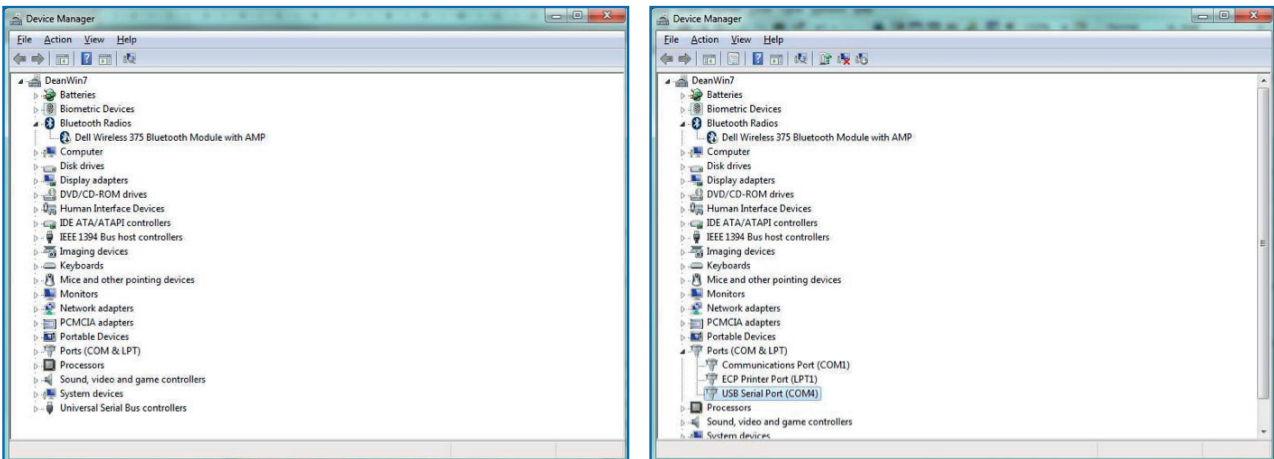
1. Connect the mini-USB connector of the SPP device to the mini-USB port on the extension cable.
2. Connect the extension cable to the Data port on the device (refer to the device manual for terminal identification).
3. Press the button on the side of the SPP02 programmer. The  LED will light up and 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

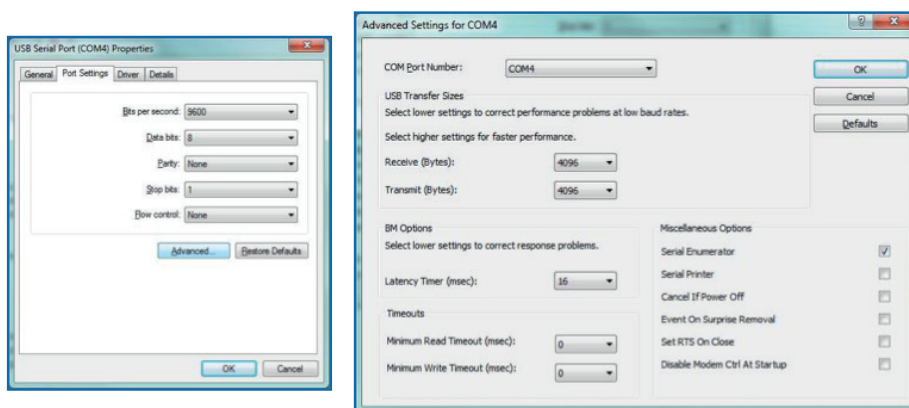
3.1 WINDOWS RECOGNISING SPP COM PORT

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#).

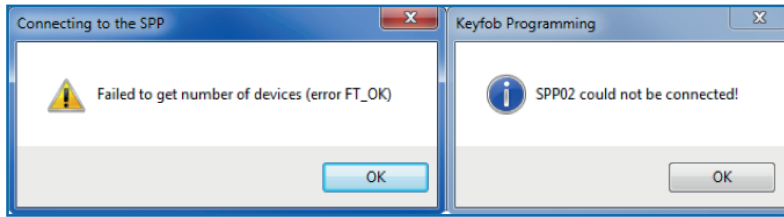


3. Right-click on the header and select **Properties** from the menu.
4. Click the **Advanced** button in the Port Settings tab.
5. Select a COM port from the drop-down list, and then **Ok** to confirm changes and close the window.



3.2 SPP NOT CONNECTED MESSAGE

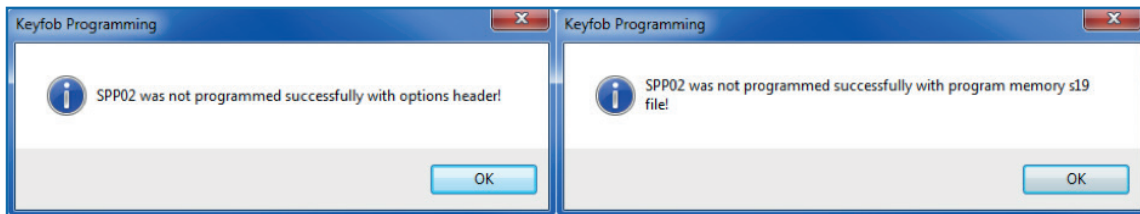
If the Program SPP button is pressed when the SPP is not connected or the SPP is not fully inserted into the computer, you will get the below error message.



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.



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 or 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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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.

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