The Shockspot System

Instruction Manual Rev 6.0
for Model Shockspot V1.5

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www.shockspot.net

INSTRUCTION MANUAL

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Disclaimer

Users must read and agree to the following terms before using the Shockspot System. The users of this software and Shockspot system understand this system is a novelty only device for visual simulation only. The Shockspot device produces a cyclical and vibrating motion that could be harmful if used improperly. The manufacturers and distributors of the Shockspot system shall not be held liable for any damages to property or body, directly or indirectly, resulting from the use of the Shockspot system or software. The user assumes full responsibility for the use of this system. The user holds harmless and indemnifies the manufacturer, affiliates and distributors from any and all liability. Users must at least 18 years of age. Users are made aware that the Shockspot system is comprised of metal framing and hinges which can cause a crushing action if the system is not setup of handled properly. The user agrees to become completely familiar with the system before its use. The user will not handle or use the system in a way to endanger person or property. The user agrees not to use or operate this system within six feet of people or pets that could be harmed by, or come in contact with the device. The Shockspot system utilizes 120-240 VAC for power and must only be used in dry locations. If the user is unsure of any of the terms in this agreement, he will not use the system. The user will not use or purchase this system in any region if for any reason this system is not legal. If you do not agree with these terms, do not use the Shockspot System.

1.0 Introduction

Please visit www.shockspot.net/resources/ to download the latest Shockspot software and manuals.

This manual details the assembly, software installation and control of the Shockspot System, the most advanced, robotic pleasure system on the market. The Shockspot offers complete control of the stroke depth, stroke length, speed, smoothness and pattern at the touch of a button. The system instantly responds to your commands through the Shockspot software installed on your PC, laptop computer and plug-and-play option with the stand-alone remote control. Flexibility, compactness and quality define the Shockspot. When stored, the Shockspot fits into a case approximately the size of a standard carry-on. When expanded for use, the Shockspot will accommodate any desired position from lying, kneeling, seated to a full standing position in a few seconds. Designed from super-rigid materials, the system is light enough to be carried effortlessly yet solid enough to remain in your desired position when in use. Users must read the entire manual before use.

2.0 What's in the box

Shockspot Machine
Power Supply and Cable
Quick-start/Software Download Instructions
Remote Palm Switch
USB Cable
T-Handle Wrench for Assembly

3.0 Shockspot Assembly

The Shockspot machine is shipped with the legs detached for portability and to reduce the package size. The system was designed to allow the legs to be attached and removed in less than a minute. There are three main components to the machine frame, two legs and the main thruster assembly. There are two legs labeled "A", the other "B" in the image below.
To assemble the machine:
1. Place the thruster assembly on a table or floor. (notice the fastening clips and bolt on each end of the thruster assembly) Each leg has one open end that will slide over the fastening clip on the thruster assembly. There is no need to remove the fastening clip for assembly. Loosen the clip enough to allow the open end of the leg to slide over the clip freely.
2. Each leg has a hole that is labeled "Tighten here" in the image below. On each end of the thruster assembly there is a quick fastening clip and a screw - DO NOT REMOVE THE SCREW! (the legs are designed to slide over/onto the fastening clip). The end of the leg marked "Open End" below has an opening which will slide over the fastening clip on the thruster assembly.

Open End

Open End

Thruster Assembly

Tighten through hole
in side of leg

Tighten through hole
in side of leg

A

B

Leg "A"

Leg "B"

To mount the legs:
  a) Hold the leg marked "A" in one hand with the rubber feet facing downward.
  b) Locate the opening in the end of the leg marked "open End".
  c) Slide the end of the leg marked "Open End" onto the fastening clip on the end of the thruster assembly marked "A". If the leg does not slide onto the fastening clip, slightly loosen the screw holding the fastening clip to the end of the thruster assembly.
  d) Align the label "A" on the leg with the label "A" on the thruster assembly. Ensure the hole on the leg marked "Tighten Here" is aligned with the screw (on the fastening clip) on the end of the thruster assembly. Insert the t-handled wrench through the hole labeled "Tighten Here" and firmly tighten the leg to the thruster assembly.
  e) Repeat the above steps for the leg marked "B".
  f) Ensure the Shockspot is squarely seated on the floor or table. All four feet should be in contact with the surface. If the legs need adjustment, slightly loosen the legs, push to the leg against the surface and tighten the legs. The design allows the legs to be adjusted slightly for uneven surfaces.

g) To adjust the position of the cylinder, place the Shockspot on a firm surface and ensure all four rubber feet are in contact with the surface. Important!! Never allow your hands or any other body part to move between any two frame components. In the event the hinge is not tight or the frame component is not supported properly, fingers, hands or body parts could get pinched between the frame members. Loosen the hinge handle while holding the segment you which to adjust. Move the segment into the desired position and firmly tighten the hinge handle. Apply pressure to the segment to ensure it is rigidly holding position. Never use a tool or any other device to tighten the hinge. Never disassemble the hinge as holding performance may be affected. Adjust one segment at a time. The Shockspot can be adjusted to simulate any desired position.

## 4.0 Shockspot Software Installation and Setup

The following is the Shockspot software setup procedure. (Please note, the version of the software may will change as software updates are posted to the site. This manual depicts software version XXX which represent the version of software you are installing for your specific Shockspot model)

a) Using a web-browser, go to: www.shockspot.net/resources/
b) In the "**Shockspot Software Download & Manuals**" section , select (double-click) "Download Software" for your specific Shockspot model to download the Shockspot-SoftwareVxxx.zip file to your PC.
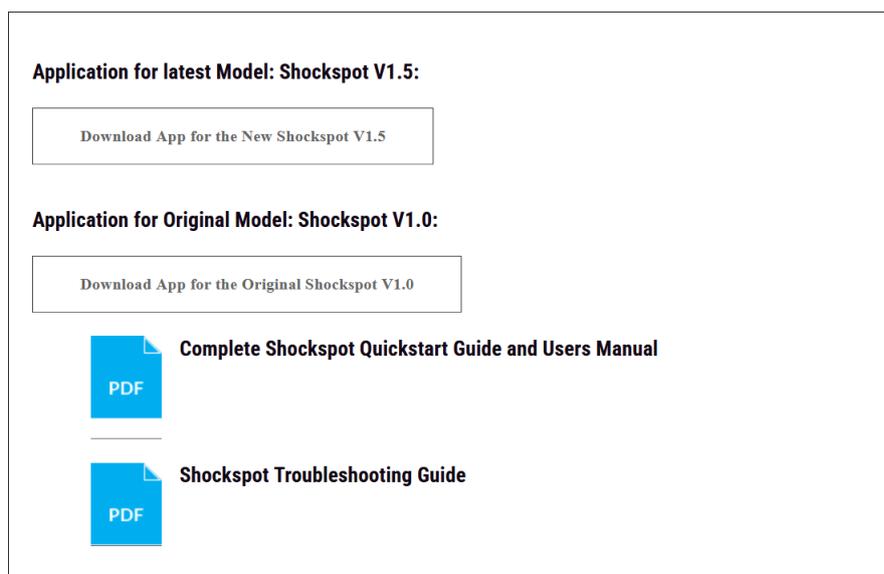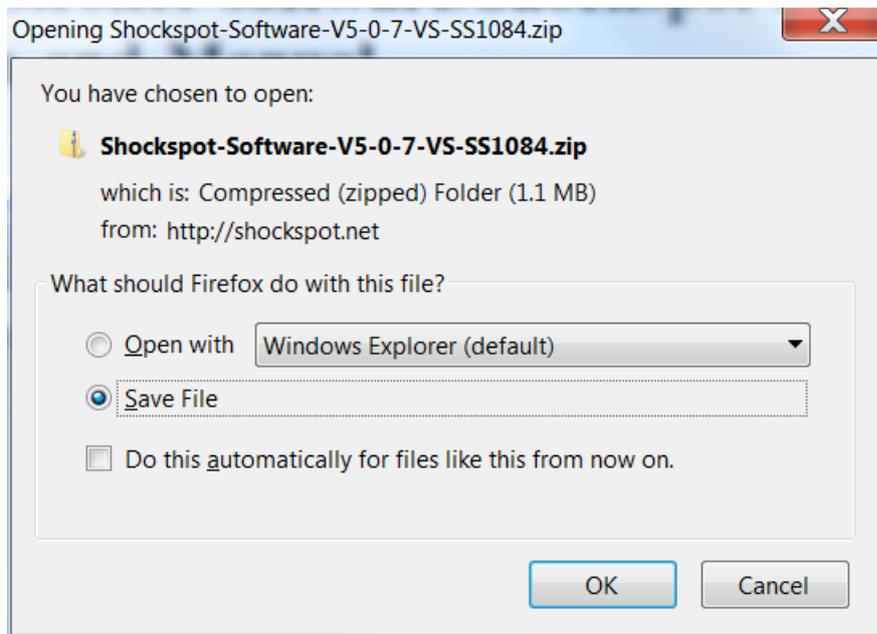

Figure 1 –Download Page

Figure 2 – Save File to Desktop

c) Navigate to your desktop to save the zip file to the desktop.

d) Navigate to your desktop then right-click the Shockspot-Software-Vxxx.zip file to extract the files to your desktop. This will create a folder on your desktop named Shockspot-Vxx-Installation which contains the software setup and communication driver files.
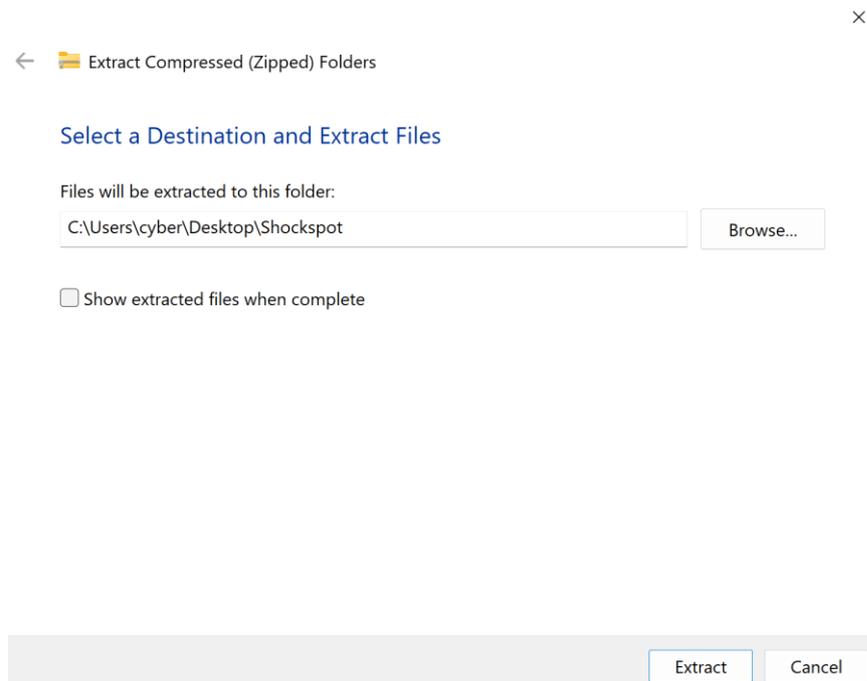

Figure 3 – Extract Files

Shockspot V1.5 Model - Instruction Manual Rev6.0

e) Open the folder and double click "setup.exe" or "setup" to install the software to your PC. You must have administrator rights on your PC to install the software.
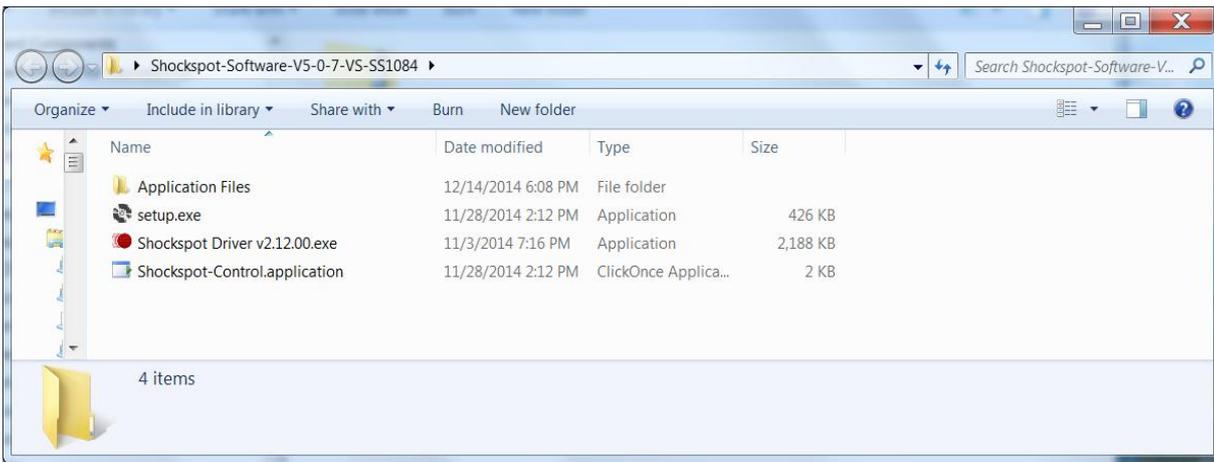

Figure 4 – Installation Folder

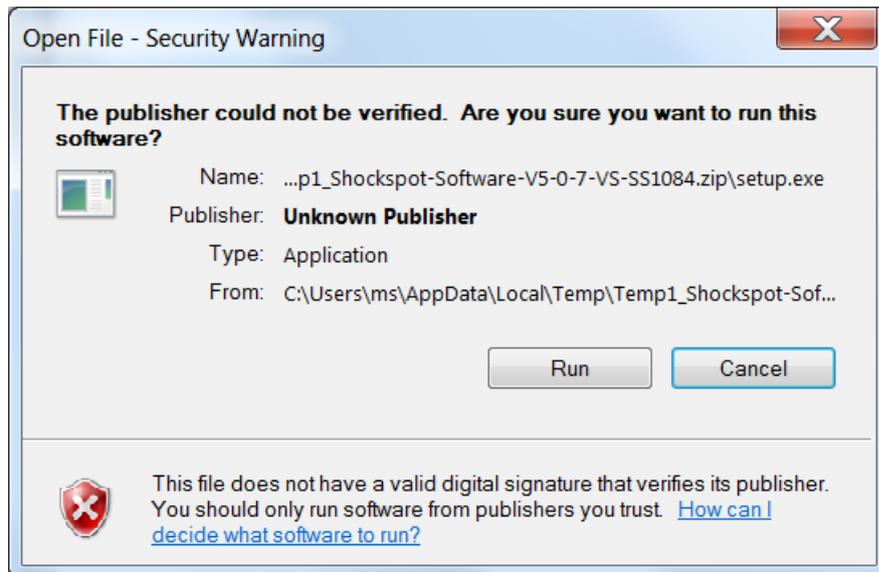f) Select "Run" then "install" to install the software.

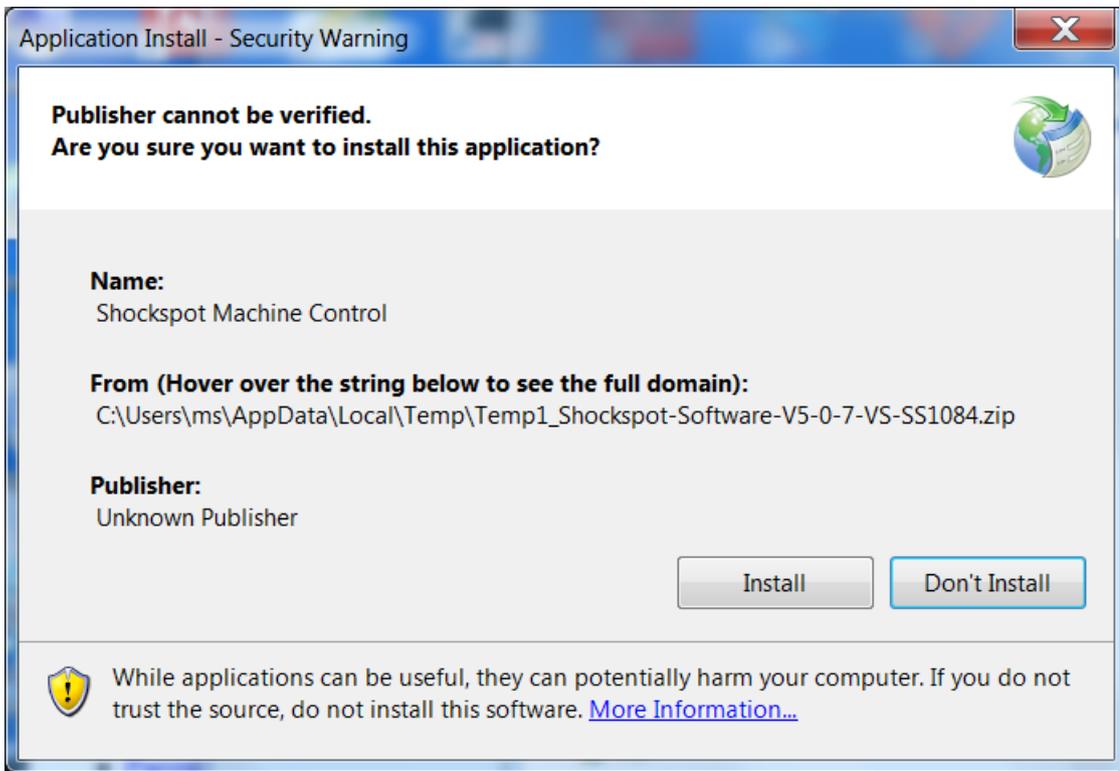Figure 5 – Select "Run" to begin setup

Figure 6 – Select "Install" to install the software

The Shockspot application may be launched after the installation is complete. Exit the installation and install the communication drivers as described below.

5.0 Install Shockspot Communication Drivers for Windows (Only if necessary)

a) The USB FTDI driver files should automatically be installed when the Shockspot is connected to your PC. If your PC does not recognize the Shockspot machine FTDI USB device, download the driver from this link: www.shockspot.net/shockspot-software/Shockspot_Driver_v2.12.6.4.exe.

b) Right-click the Shockspot-Drivers-Vxxx.exe file and select "Run as administrator"
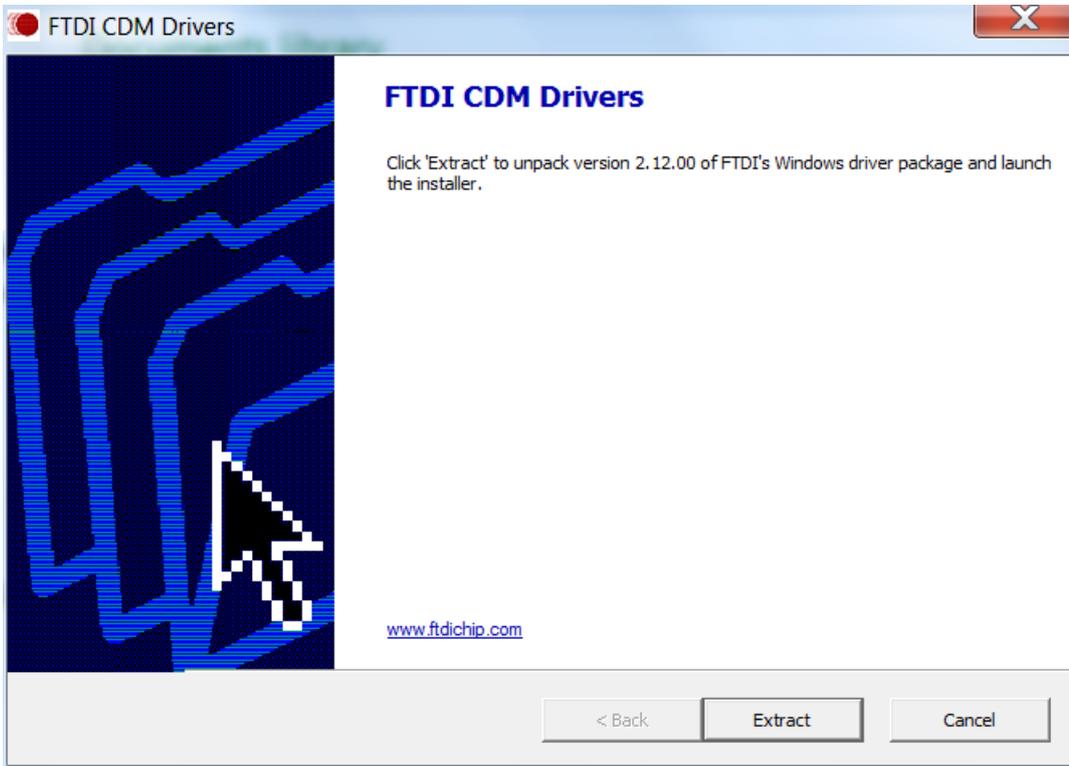
c) Select "Extract" when the FTDI drivers window appears.
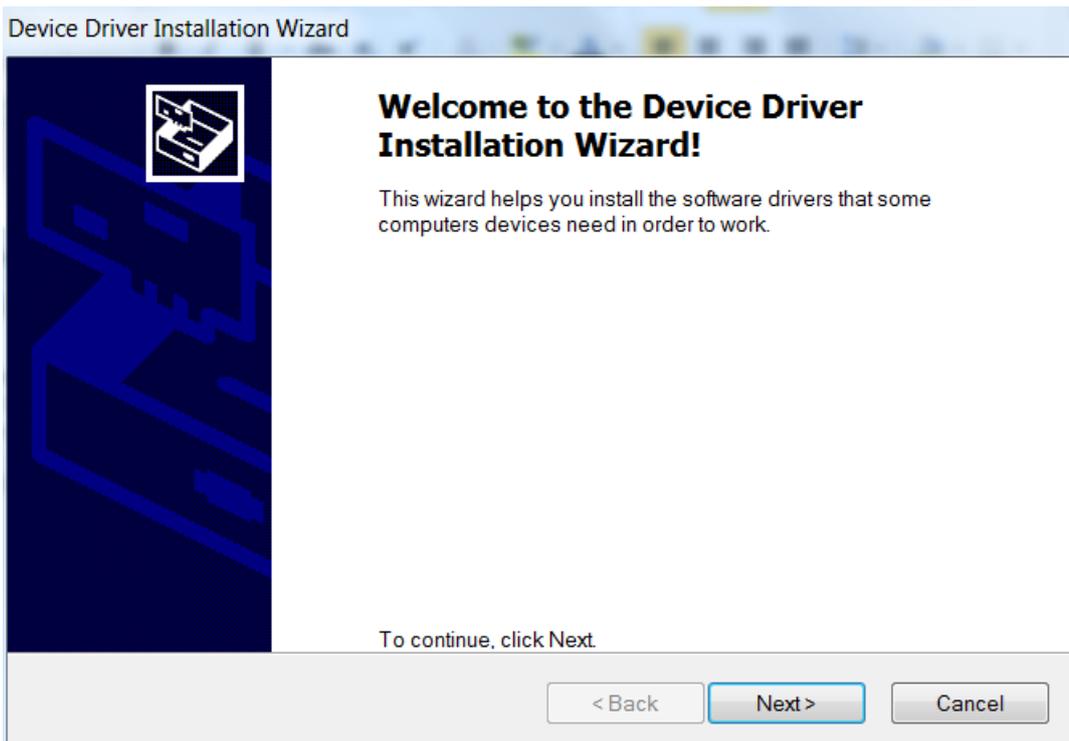
d) Select "Next" to continue the device driver installation.
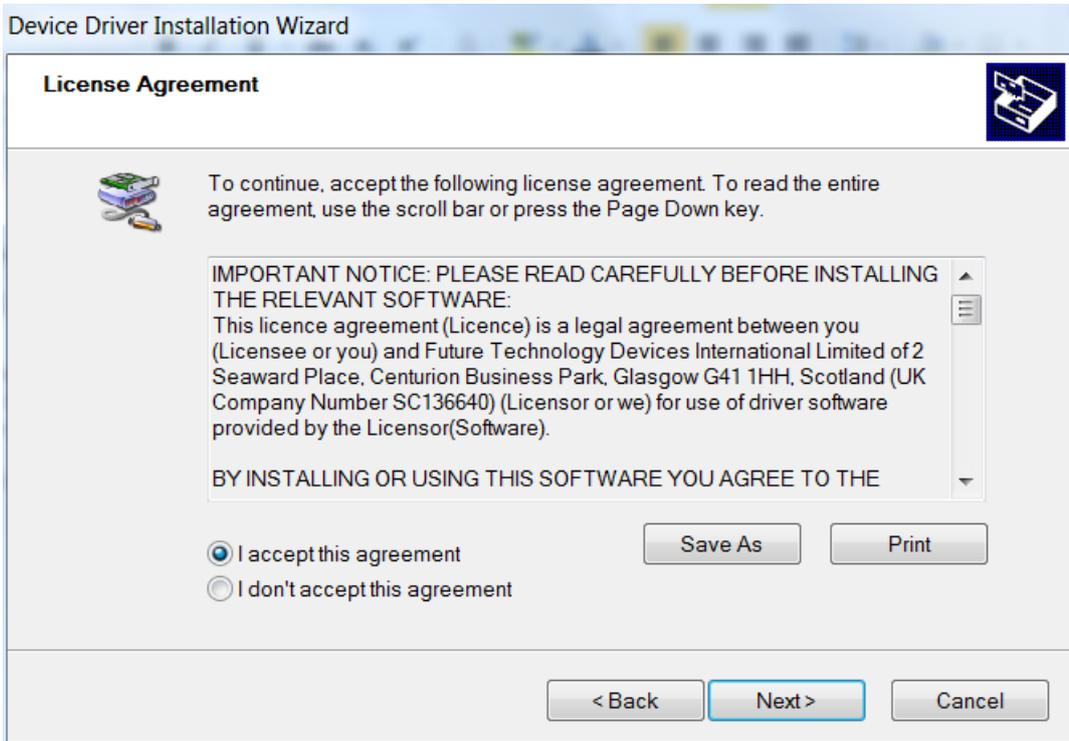
e) Accept the agreement and select "Next" to continue installation.
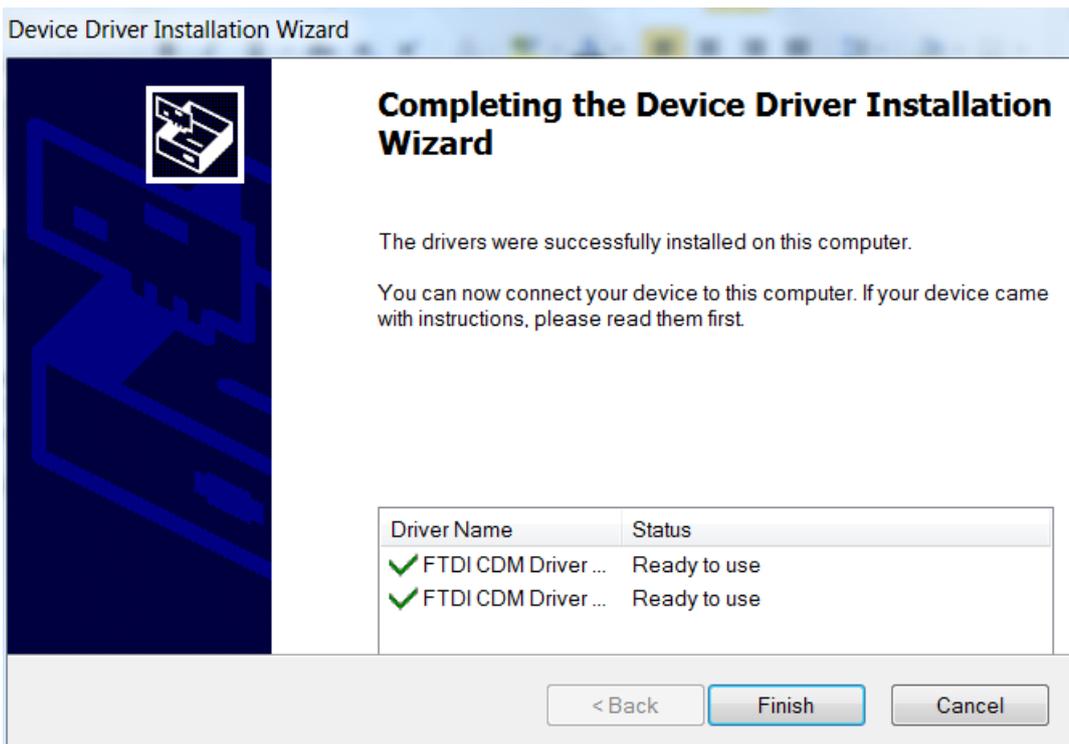
f) Select "Finish" to complete the driver installation.
g) Connect the PC to the Shockspot machine using the provided USB cable. (It is not necessary to provide power to the Shockspot machine at this time) The PC will recognize the Shockspot system through the USB cable without external power applied to the Shockspot.
h) The PC will indicate "New Hardware Found" and complete the driver installation.

6.0 Operating the Shockspot

Below are the horizontal and vertical payload capabilities based on speed/acceleration. When changing attachments to the end of the cylinder, power must be removed and the cylinder slightly extended. The cylinder must be supported by hand when applying pressure to attach/detach the attachment to the end of the cylinder to extreme side forces to the cylinder. The cylinder must be protected from excessive shock. Ensure the cylinder is free to move and does not impact any hard surface during operation. Warranty will not cover cylinders exposed extreme side loads or shock.
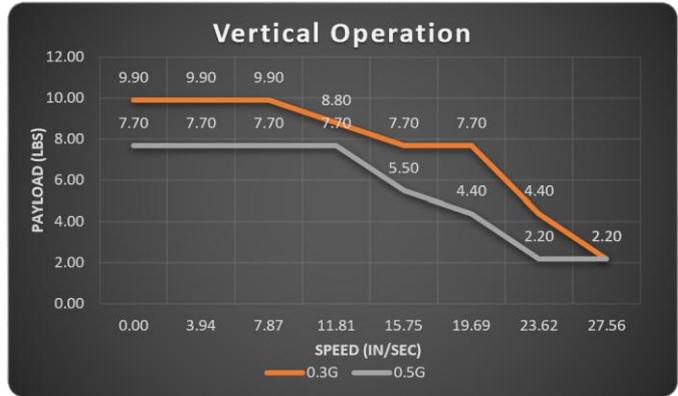
The Shockspot is ready for operation after the system is assembled and the software is installed. Connect the PC to the Shockspot using the USB cable (if not already connected) and apply power to the system. Launch the Shockspot software by navigating to the Shockspot program group and clicking "Shockspot Machine Control" or by selecting the "Shockspot Machine Control" icon on the desktop.

Desktop icon

a) Shockspot Disclaimer – You must read and accept to enter the Shockspot application.
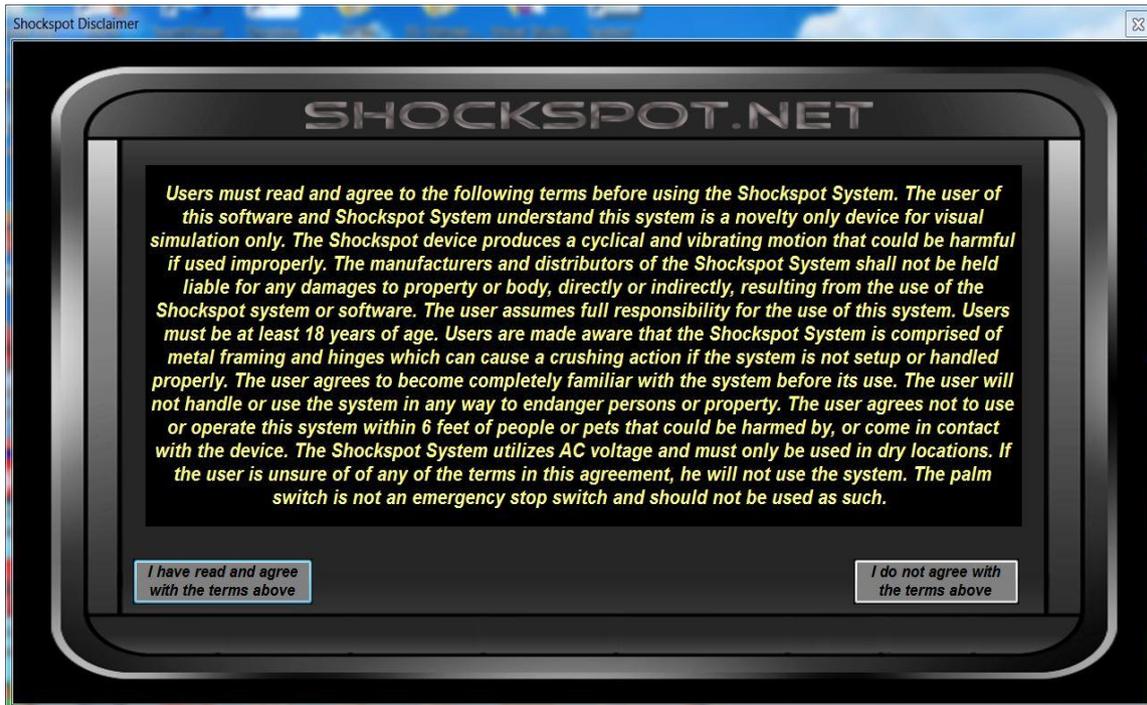
Shockspot Disclaimer

b) The Shockspot main screen will appear which allows control of the Shockspot machine. If the Shockspot is connected, the "Machine ID" field will be populated with the Shockspot Machine Hardware ID as shown below. In this state, the machine can be locally controlled by selecting the "RUN" button and adjusting the sliders.
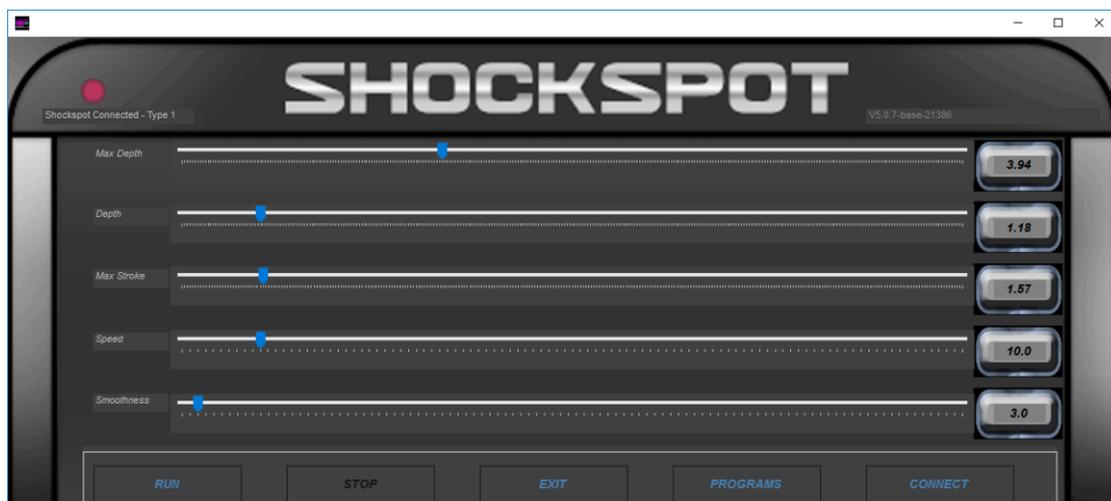
Shockspot Main Screen – Shockspot connected

If the Shockspot is not showing that it is connected, select the "CONNECT" button to access the connection panel. The software will attempt to scan and connect to the Shockspot. As shown below,

if the message "NO REGISTERED DEVICE FOUND" appears in the window, either the Shockspot is not connected to the PC via the USB cable, the driver is not properly installed for the USB device, or the machine is not properly registered in the software. If the USB cable is connected and you are receiving this message, please contact mark@shockspot.net for support.
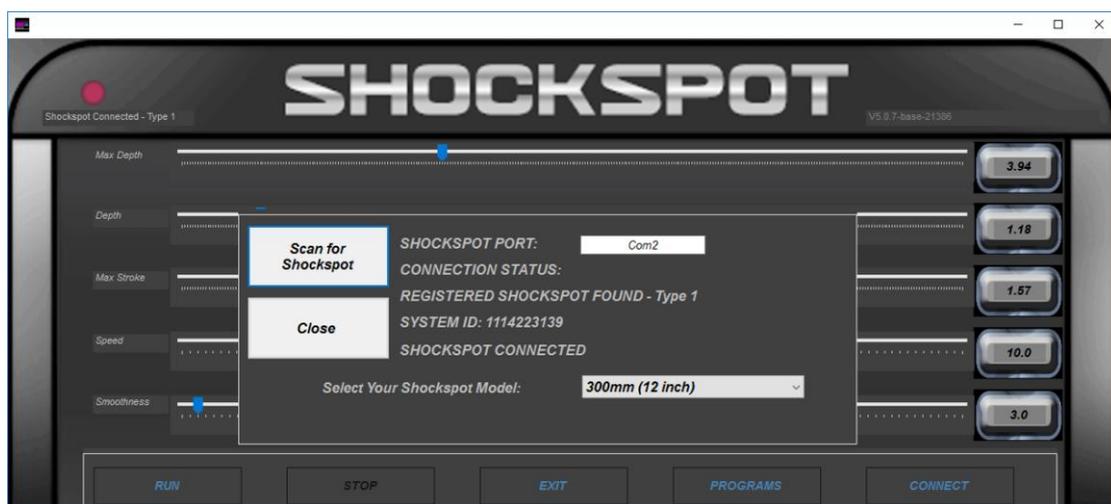

"NO REGISTERED DEVICE FOUND"

The Shockspot is not registered or is not properly detected by the software.

"REGISTERED SHOCKSPOT FOUND"

The Shockspot is registered and is properly detected by the software.

c) Select your Shockspot model by selecting the "CONNECT" button and selecting your model in the "Select Your Model" drop down list. This selection will be saved and it is not necessary to reselect each time the software is started. Close the connect window to return to the main screen

d) The palm button can be used to pause/resume cycling of the Shockspot. This button should not be used as an emergency stop button. A red indicator appears at the top left side of the main screen when the

Shockspot is inhibited by the palm button. Pressing the button will alternate between inhibited/non-inhibited mode as shown below.
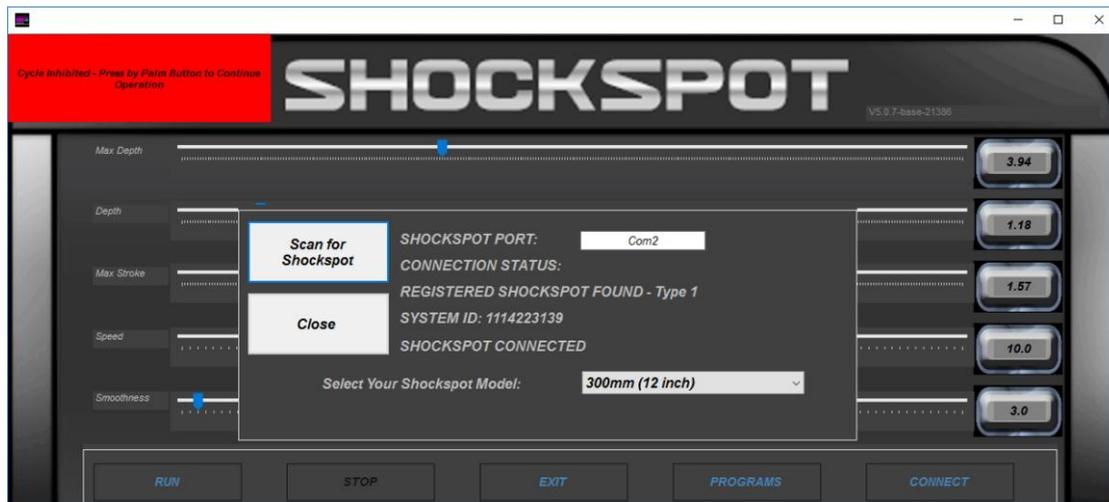
Shockspot cycle inhibited by palm button.

e) Control Setting Descriptions:

Max Depth - This setting is used to set the maximum depth the Shockspot will stroke, regardless of the depth setting.

Depth - This is the furthest point the Shockspot will stroke. For example, if this value is set to 5 inches, the Shockspot will not go any more than 5 inches deep. The "Depth" setting is limited to the "Max Depth" value setting.

Max Stroke - This value works in conjunction with the Depth value. It determines how far the Shockspot will stroke. For example, if the Depth is set to 4 inches and the Max Stroke is set to 1 inch, the Shockspot will stroke a total of 1 inch (between 3 and 4 inches). If you set the max stroke to 1.5 inches, it would stroke between 2.5 and 4 inches. At this point, if you were to increase the depth to 6 inches, it would automatically stroke between 4.5 and 6 inches. If you want to always stroke between zero and the depth you have set, just set the "Max Stroke" to 6 inches.

Speed - Speed is the maximum speed that the Shockspot will stroke. For example, if you could set the maximum speed of your car to 60 mph, you would never go faster than 60 mph, regardless of how fast or slow you accelerated. Likewise, if you set your max speed to 5 mph, it would never go faster than 5 mph, even if you hit the pedal very fast... only 5 mph.

Smoothness - This is the acceleration of the stroke. Using the reference above, with a speed set to 60 mph, you could accelerate very quickly or very slowly (smoothness) but you will not go faster than the max speed you set. If, for example, you set a very low smoothness value, you may not reach your max speed setting because the stroke would need to start decelerating before it had a chance to reach the maximum speed. Imagine accelerating your car very slowly on a short road, you would not reach your top speed because you would have to start decelerating in order to stop at the end of the road. Low smoothness settings create a very soft, smooth reversal of the stroke, very high settings create a quick, robust change of direction.

f) To Exit the Shockspot application, select the "Exit" button.

6.1 Running Programs

a) To access the Programs screen, select the "PROGRAMS" button from the main screen. The programs screen allows programs to be selected, run, modified and stored. Users can customize the default programs or create new programs from scratch by using the sliders. The default program screen appears with all parameters set to their minimum value as shown below.

b) Select the "OPEN FILE" button to open the stored Shockspot programs. Default programs are loaded into the system when the software is installed.

c) Click the desired program, for example, click the "Full Range" program. All of the parameters are set according to the stored program. As shown below, the "DEPTH", "MAXIMUM STROKE", "SPEED", "SMOOTHNESS", "MAXIMUM DEPTH" AND "TIME" are set to the values stored in the program. The settings function as described above. Each step has an associated "TIME" value in seconds and an "ENABLE" option to enable/disable the step. The parameters defined in each step will run for the period of time specified in the "TIME" field for the step. Note that step times set to zero will not be executed.

d) Select the "RUN" button to run the program. As the program runs, the step being executed is highlighted in yellow. The program can also be run by pressing the remote palm button.

e) To save the program, select the "SAVE FILE" button and enter a name for the program to be stored.

f) To delete previously stored programs, select the "DELETE FILE" button and click on the file to delete.

g) All Shockspot programs are stored in the application directory in the "Shockspot_data" folder and have the ".ss2" extension. Ex. "C:\Program Files\shockspot\shockspot_data" Programs can be copied and pasted to this directory for sharing.

7.0 Shockspot Specifications

Power:
120-240 VAC 50/60Hz

PC Communication:
USB

Software:
Shockspot Software runs on Windows 10, 11 operating systems

Stand Alone Remote:
Stand-Alone remote control option – No PC required – Control Depth, Maximum Stroke, Speed and Smoothness with easy to feel knobs.

Palm Button:
Hand held control for starting/stopping software control

Technical Specifications

Dimensions	16.5" W x 26.5" L, 39" to 51" H (Vertical Thruster) or 25.25" H (horizontal Thruster)
Dimensions Folded	16.5" W x 26.5" L x 5.5" H with legs attached, 6" W x 25.0" L x 5.25" H with legs removed
Shipping Weight	23 lbs
Stroke Length	0 – 12 inches
Maximum Thrust	20.91 lbs push force . 125 inch-pounds torque equivalent for a 12 inch rotary machine
Maximum Speed	27.36 inches/sec
Software	Shockspot Software – Windows (10, 11) and Run on Mac using Parallels or Bootcamp
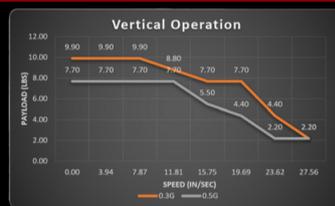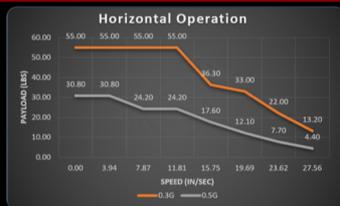
Above specifications are for the same for the 8-inch and 12-inch Shockspot machines except for the stroke length. Payload for various speeds and accelerations are listed for vertical and horizontal operation.

The Cylinder must not be side loaded greater than specified. When changing attachments to the end of the cylinder, power must be removed, the cylinder slightly extended. The cylinder must be supported by hand when applying pressure to attach/detach the desired attachment to the end of the cylinder to reduce side forces to the cylinder. The cylinder must be protected from excessive shock. Ensure the cylinder is free to move and does not impact any hard surface during operation. Warranty will not cover cylinders exposed to extreme side loads or shock.

Stroke Length: (software adjustable on the fly)
Based on Shockspot system ordered:
Shockspot V1.5 8 inch model: 0 - 8 inches (200 mm)
Shockspot V1.5 12 inch model: 0 - 12 inches (300 mm)

Attachment Method:
Doc Johnson's ™ Vac-U-Lock system
(Quick change/disconnect system)

Warranty:
The Shockspot is warranted for 5 year parts and labor for manufacturer defects. This warranty covers private, non-commercial use of the product. Customers are responsible for shipping charges and associated transportation costs. The user of this software and Shockspot system understand this system is a novelty only device for visual simulation only. The Shockspot device produces a cyclical and vibrating motion that could be harmful if used improperly. The manufacturers and distributors of the Shockspot system shall not be held liable for any damages to property or body, directly or indirectly, resulting from the use of the Shockspot system or software.

8.0 Shockspot Care and Additional Information

a) When attaching the desired attachments, used talc powder or "quick release" powder in the quick connect hole of the attachment. This will allow the attachment to be attached and removed more easily and help prevent damage to the Shockspot System.

b) Always support the cylinder when attaching or removing attachments to protect the thruster from extreme forces and damage.

c) Cleaning - The Shockspot frame assembly can be cleaned with a damp cloth but the electronics enclosure and cylinder must not be wet. The cylinder and electronics enclosure may be wiped with a damp cloth but never allow water or any other fluid to enter the cylinder or electronics.

9.0 – Troubleshooting your Shockspot

This section covers the most common problems and solutions with the Shockspot. Most problems with the Shockspot are simple communication issues that can be resolved quickly and easily.

The first step is to make sure that power is connected to your Shockspot and you have a green indicator light on the bottom back side of the thruster mechanism. If the green indicator is not visible and you have verified the power supply is connected, please contact mark@shockspot.net.

9.1 "Registered Shockspot Found" but "Shockspot Not Connected" is Displayed When Trying to Connect
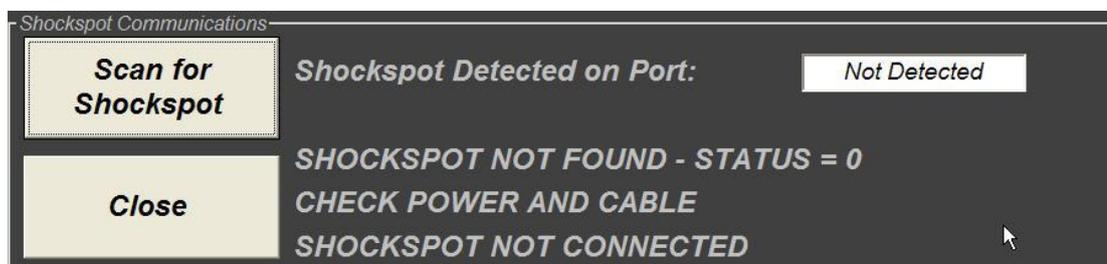
If you get this message when you click the connect button the most likely problem is that the port number assigned in your PC is greater than 5. This is a very easy fix for Windows.

This message is indicating that a registered Shockspot Machine is connected through USB, but a communication link is not established properly as a result of the COM port assigned a value greater than 5.

Follow these steps to resolve this issue:

Make sure your Shockspot System is connected to your PC when performing this configuration!

Navigate to the "Control Panel" and select "Device Manager" you will see a list of devices on your PC.

a) Expand the "Ports (COM & LPT)" settings and verify that "USB Serial Port (COMx)" appears in the list. For example "USB Serial Port (COM23)", where the "23" is the COM port that has been assigned. (If the assigned COM port is 5 or less, please go to section 9.2 of this manual and follow the steps for driver installation)
b) Double click the "USB Serial Port (COMx)" and select the "Port Settings" tab then select the "Advanced" tab.
c) Set the "COM Port Number" to a value of 5 or less. Select lower numbers to allow the software to recognize the Shockspot System faster.
d) Select "OK" to accept the settings and return to the "Device Manager". You must disconnect, then reconnect the USB cable for the new settings to take effect. Your Shockspot is now ready to run.

9.2 – "Shockspot Not Found" and "Shockspot Not Connected" is Displayed When Trying to Connect


If you get this message when you click the connect button the most likely problem is that the driver is not installed for the Shockspot communication hardware. The drivers for Windows 10, 11 are available from this link: www.shockspot.net/shockspot-software/Shockspot_Driver_v2.12.6.4.exe.

This message is indicating that communication to a registered Shockspot machine cannot be found, follow these steps to resolve this issue:

Make sure your Shockspot System is connected to your PC when performing this configuration!

Navigate to the "Control Panel" and select "Device Manager" you will see a list of devices on your PC.

a) Install the communication drivers as described in section 5.0
b) This will install the proper driver for the Shockspot and should install the USB serial port as well.
c) When this step completes, you must go back to the "Device Manager" and verify the settings under the "Ports (COM & LPT)" you should see "USB Serial Port" listed.
d) Verify that "USB Serial Port (COMx)" appears in the list. For example "USB Serial Port (COM2)", where the "2" is the COM port that has been assigned.
e) If you see any devices listed as "Standard Serial over Bluetooth link", right-mouse click each of these devices and select "Disable". Restart your PC after this modification. This has been an issue on some PC's.
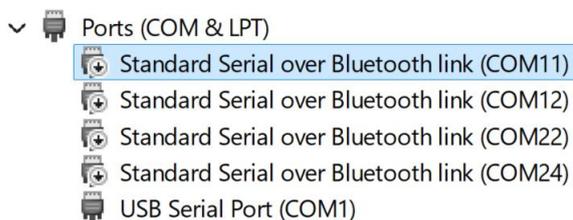
The COM port assigned must be 5 or less! If not, please follow the next steps.

a) Double click the "USB Serial Port (COMx)" and select the "Port Settings" tab, then select the "Advanced" tab.
b) Set the "COM Port Number" to a value of 5 or less. Select lower numbers to allow the software to recognize the Shockspot System faster
c) Select "OK" to accept the settings and return to the Device manager. You must disconnect, then reconnect the USB cable for the new settings to take effect. Your Shockspot is now ready to run.

For additional troubleshooting guides and tutorials, visit: www.shockspot.net/resources/

If you have any questions, email: mark@shockspot.net