



# **Quick Start Installation Instructions**

**For**

**Barnes Tool serial number .....**

## **CPT/CAT3000v3 for Windows 7 & 10**

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**Please read before attempting to install the CPT/CAT3000v3 system**

(Full manual is available in a PDF format on the CD and, following software installation in the folder  
C:\Barnes\CPT 3000v3\Docs\)



# Installation summary

- Read through this quick start manual
- **Pre-requisites: Windows 7 and 10 32-bit or 64-bit (Home version not fully compatible)**
- **Make a copy of the CD on your hard drive for backup purposes**
- Install reader driver software taking care not to plug the readers in unless instructed to do so
- Install the CPT/CAT software using the eight-digit serial number written on the front of these installation instructions, the CD and in the delivery documentation.
- Connect readers as instructed (the software needs a dongled reader attached to operate, this dongle is in the Barnes reader, or the USB SAM card holder if supplied)
- Request the authorisation code by clicking on “Create Authorisation Request Document” and sending us document or by emailing the installation number displayed on the screen to [authcodes@barnestest.com](mailto:authcodes@barnestest.com)
- When you receive the authorisation code enter it into the box on the screen and tick the accept terms box
- (Temporary authorisation codes may be issued until Barnes invoice is settled or redundant readers are returned)
- Open the CD and Check “AddOns” the additional features folder and install the .bip files that are contained in there as instructed in section 10
- Test readers and review CPT settings
- Install the separate MasterCard CPV software if this has been purchased (See instructions with CD)

## Note:

Barnes software will flag up the pending expiry date of the authorisation code two months in advance, (this can be checked by viewing the “help/About” window on the first screen). The advance notice is to enable you to request a new code and settle any invoices relating to the purchase of a new licence, which will save time and prevent your system being out of operation at a critical time. Please request a new authorisation code as soon as the warning window appears, a new code will be issued dated from the current expiry date.



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## **Licence Authorisation**

Following the installation of the Barnes CPT/CAT software, you need to contact Barnes by email for an authorisation code. Please ensure that you send your request to [authcodes@barnestest.com](mailto:authcodes@barnestest.com)

Please note that due to Holidays', Absences' and Meetings Emails sent to our personal email address may not get a timely response; please ensure that you send your request to [authcodes@barnestest.com](mailto:authcodes@barnestest.com)

Please Email the following details: -

[EXAMPLE](#)

A: - The installation code displayed by the software

[AE13 R435 4476 7921 3426](#)

B: - The serial number and model of the Barnes tool

[0543/0001](#)

C: - The intended location of the CPT tool.

[Test lab](#)

D: - A contact name. Telephone Number and Email address

[S Barnes +44\(0\)1730 231313](#)

[sales@barnestest.com](mailto:sales@barnestest.com)

E-mail this information to [authcodes@barnestest.com](mailto:authcodes@barnestest.com)

## **Problem Solving**

Please note that Barnes periodically updates the software following customer reported requests and issues. Many problems may be resolved by downloading the latest updates from:-  
[www.barnestest.com/support](http://www.barnestest.com/support)

Please check this web site for updates on a monthly basis.

When requesting support for a problem, our first instruction will be to install the latest updates from our web site. Please check the HELP/ABOUT window of your CPT software with the details on the web site and if necessary download the latest updates, then check to see if the problem has been resolved

If you should need Support of any kind regarding any Barnes product, please send your request by email to [support@barnestest.com](mailto:support@barnestest.com)

### **Include in your Email**

- A: - The full details of the problem/question.  
NB The tool has the means to export error reports and test results in a form that can best assist our support engineers, card data can be masked and/or encrypted, please use these facilities in preference to screen shots.
- B: - Your software version, Scripts issue and Barnes tool serial number  
(You can find these details in the HELP/ABOUT screen)
- C: - Your contact details including your Telephone number and company name



# **Software Installation**

## **1. Install Barnes Mag/ Chip Card Reader**

### **a) Barnes 3K7 motorised Mag/Contact/Contactless (Dual Interface capable) card reader or 3K3 Mag/JIS/Contact card reader**

#### **Barnes 3K7 / 3K3 motorised card reader (in black or beige metal case)**

The Barnes 3K7 is a Dual interface capable reader, but you will only have the contactless capability if you have bought a CPT 3000v3CL or CAT 3000v3CL, where CL denotes that the contactless module is included. Reads Mag stripe, Contact and (with the contactless module) the Contactless chip.

The Barnes 3K3 readers is specifically for JIS cards and has JIS mag stripe (as well as ISO mag stripe) reading capability.

Both these readers will only handle plastic ID-1 cards and are not suitable for metal cards.



#### **Barnes 3R1 manual Contact card reader**

The Barnes 3R1 manual ISO Mag Stripe and Contact card reader ("Barnes manual reader") is ideal for testing of metal or titanium cards or cards with curved ends.



There are two optional ways of connecting these readers, Serial or USB.

#### **i) Serial Connection (for USB see below)**

The Barnes 3K7/3K3 motorised card reader ("Barnes motorised reader") and Barnes 3R1 manual reader are supplied with a Serial (RS 232) connection. Connect this to the reader and tighten both screws by hand. Connect the 12-volt power supply unit (PSU) to the reader and the mains lead to the PSU.

The reader can be attached directly to a Serial Port on the PC and no drivers are required.

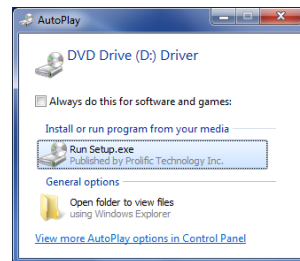
**IMPORTANT:** In order to prevent damage to the mains cable when attaching to the Barnes reader, make sure you fully screw up the ring holding the power plug in place.



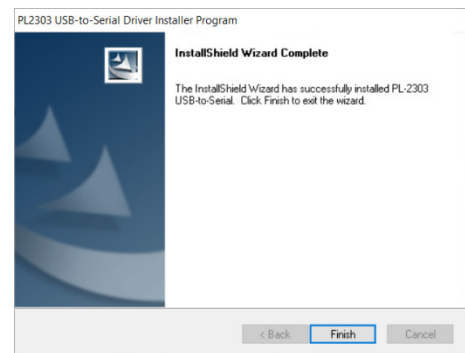
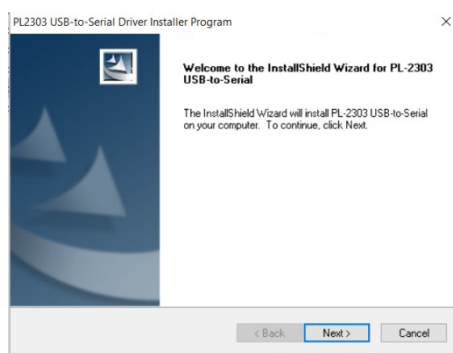
## ii) USB Connection

A Prolific Serial to USB adaptor is provided in order to enable you to connect the Barnes reader to a USB port if this is all that is available.

The driver for the Serial to USB converter needs to be installed. **The reader must NOT be plugged into the serial USB converter until this process is complete.**



To use the **Barnes reader attached to a USB port using the USB Serial Converter** please first insert the USB Serial Converter Product Driver disk. On the AutoPlay dialogue screen, double click on “Run Setup.exe” to run the installer, or if necessary browse to find the file “Setup.exe” and double click to run the installer.



This will install the driver “PL2303\_Prolific\_DriverInstaller\_v1.9.0.exe”.

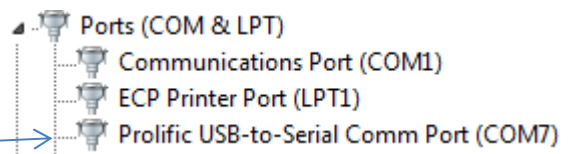
**Note:** This may not be the most up-to-date driver. If you require a more up-to-date driver you can find this on your CPT/CAT software CD, in the Drivers/ USB-Serial Converter/ PL2303\_Prolific\_DriverInstaller\_v1\_12\_0 (W10, W8, W7, Vista) folder and install PL-2303\_Prolific\_DriverInstaller\_v1.12.0. Windows will install the drivers.

Once the drivers are installed, connect the 12-volt power supply unit (PSU) to the reader and the mains lead to the PSU. Connect the Serial cable and the USB/ Serial Adaptors together and then connect the Serial plug to the PC and the USB plug to the PC. Windows will install the Serial/ USB cable.

Go to Device Manager to check the COM Port number

- If using Windows 7: on completion, it will indicate the COM port that it has been connected to.
- Alternatively check in Control Panel – Device Manager and look in “Ports (COM & LPT)” to see what COM port the reader has connected to.

See example:



Make a note of the COM Port indicated in your Device Manager panel.

Connect the reader to the serial port on the adapter or the PC as necessary and power it up. The CPT software will normally locate the correct COM Port automatically, but if it fails for any reason the user will be prompted to enter the correct COM Port number.

## **b) Barnes IS350/380 motorised Contact card reader**

### **i) Serial Connection** (for USB connection see below)

#### **Barnes motorised Contact card reader (grey reader in grey plastic case)**

The Barnes motorised Contact card reader (“Barnes motorised reader”) is supplied with a Serial (RS 232) connection. Connect the 12 volt power supply unit (PSU) to the reader and the mains lead to the PSU. It is a MagTek IS350 reader specially adapted by Barnes.

The reader can now be attached directly to a Serial Port on the PC and no drivers are required.

**IMPORTANT:** In order to prevent damage to mains & Serial cables when attaching to the Barnes motorised reader, make sure cables are held in place using fixings found above the sockets on rear panel. Cable ties can also be used to help leads stay in place & prevent slipping. As shown to the right:

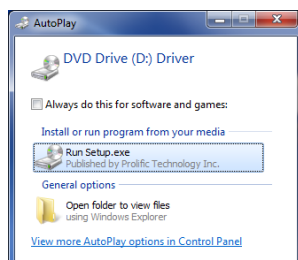


### **ii) USB Connection**

A Prolific Serial to USB adaptor is provided in order to enable you to connect the Barnes reader to a USB port if this is all that is available.

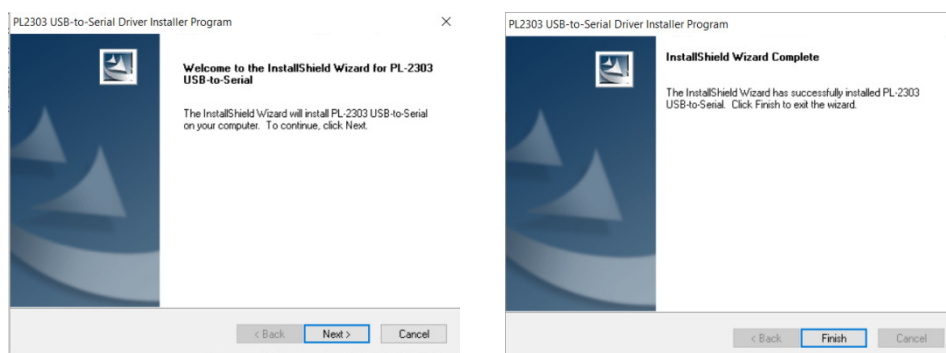
**Note:** Existing users whose Barnes reader firmware has been updated to Serial, the CPT or CAT software must be **v3.225 or higher** to work with this reader whether using a hardware serial port or the Prolific Serial to USB adaptor. Check in CPT/ CAT Help / About. If you have a lower version you must first update your CPT/CAT software. See Section 15 below.

The USB drivers for the Serial to USB adaptor need to be installed. **The reader must NOT be plugged into the serial USB converter until this process is complete.** Please be aware that the driver installed by the automatic search in Windows for the MagTek reader will not operate with the CPT.



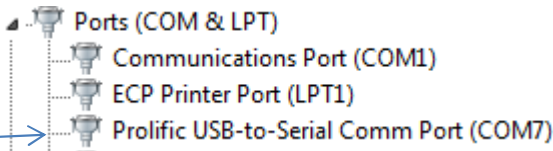
To use the **Barnes reader attached to a USB port using the USB Serial Converter** please first insert the USB Serial Converter Product Driver disk. On the AutoPlay dialogue screen double click on “Run Setup.exe” to run the installer, or if necessary browse to find the file “Setup.exe” and double click to run the installer.

This will install the driver “PL2303\_Prolific\_DriverInstaller\_v1.9.0.exe”.



**Note:** This may not be the most up-to-date driver. If you require a more up-to-date driver you can find this on your CPT/CAT software CD, in the Drivers/ USB-Serial Converter/ PL2303\_Prolific\_DriverInstaller\_v1\_12\_0 (W10, W8, W7, Vista) folder and install PL-2303\_Prolific\_DriverInstaller\_v1.12.0. Windows will install the drivers.

Once the driver is installed, connect the 12-volt power supply unit (PSU) to the reader and the mains lead to the PSU. Connect the Serial cable and the USB/ Serial Adaptors together and then connect the USB plug to the PC. Windows will install the Serial/ USB cable.

- On completion it should indicate the COM port that it has been connected to.
  - Alternatively check in Control Panel – System – Device Manager and look in “Ports (COM & LPT)” to see what COM port the reader has connected to.
- See example: 

Make a note of the COM Port indicated in your Device Manager panel.

The CPT software will normally locate the correct COM Port automatically, but if it fails for any reason the user will be prompted to enter the correct COM Port number.

**IMPORTANT:** In order to prevent damage to mains & USB cables when attaching to the Barnes motorised reader, make sure cables are held in place using fixings found above the sockets on rear panel. Cable ties can also be used to help leads stay in place & prevent slipping. As shown to the right:

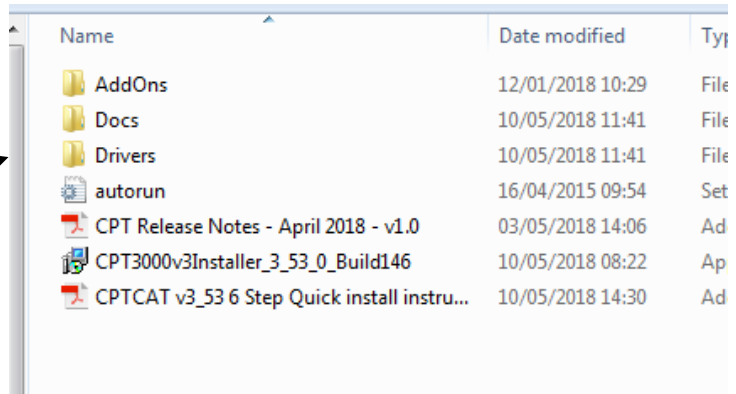


### Uninstalling Barnes USB reader

Note: If you have to uninstall the Barnes USB reader for any reason, the reader must be connected to the PC which uninstalling. The PC will then shut down. Before the PC restarts you must disconnect the Barnes reader from the USB port.

## **2. Insert CPT/CAT 3000v3 CD and open with Windows Explorer**

Click and open the “Drivers” folder

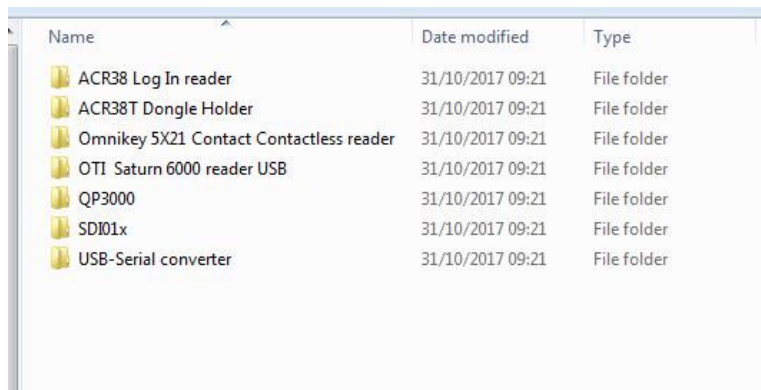


Name	Date modified	Type
AddOns	12/01/2018 10:29	File
Docs	10/05/2018 11:41	File
Drivers	10/05/2018 11:41	File
autorun	16/04/2015 09:54	Set
CPT Release Notes - April 2018 - v1.0	03/05/2018 14:06	Ad
CPT3000v3Installer_3_53_0_Build146	10/05/2018 08:22	Ap
CPTCAT v3_53 6 Step Quick install instru...	10/05/2018 14:30	Ad

## **3. Install Other Reader Drivers**

The Barnes Contact card reader should already have been installed as per instructions in Section 1, Pages 9 - 12.

Ensure all other necessary reader drivers are installed. The reader drivers are to be found in the “Drivers” folder on the CD.



Name	Date modified	Type
ACR38 Log In reader	31/10/2017 09:21	File folder
ACR38T Dongle Holder	31/10/2017 09:21	File folder
Omnkey 5X21 Contact Contactless reader	31/10/2017 09:21	File folder
OTI Saturn 6000 reader USB	31/10/2017 09:21	File folder
QP3000	31/10/2017 09:21	File folder
SDI01x	31/10/2017 09:21	File folder
USB-Serial converter	31/10/2017 09:21	File folder

The **OTI Saturn 6000 contactless Serial version** and **ViVOpay 5000** contactless reader are serial port devices and do not require driver installation.

### **OTI Saturn 6000 Contactless reader - USB Installation**

The driver for the **OTI Saturn 6000 contactless reader USB version** is included within the Windows operating system.

### **Windows 10**

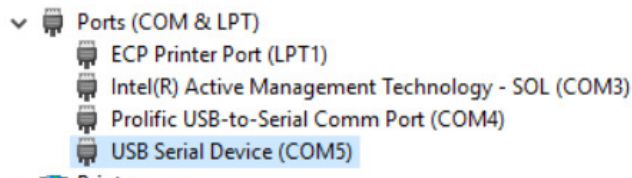
To install the driver for the **OTI Saturn 6000 contactless reader USB version** on Windows 10 it will be necessary to first disable the Win 10 Driver Signature Enforcement.

To Disable the Win 10 Driver Signature Enforcement:

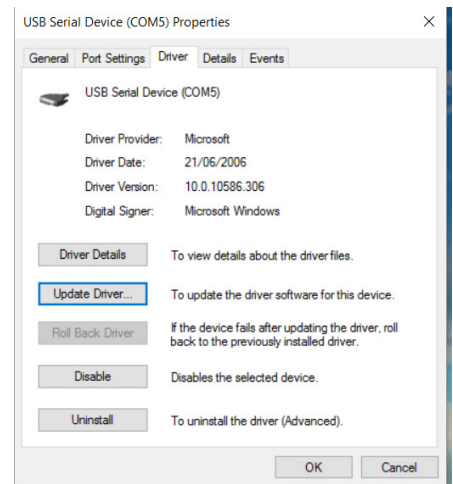
1. Click on the Start; choose Settings.
2. Click Update and security
4. Click Recovery
5. Under Advanced start up, click “Restart now” -
7. Click ‘Troubleshoot’.
8. Click ‘Advanced Options’
9. Click ‘Startup Settings’
10. Click Restart.
11. When starting a list of options will appear press 7 for option 7-, which should be “Disable Driver Signature Enforcement”
12. PC Restarts
13. Install drivers required from within device manager, (see below)

## OTI Saturn 6000 install (following disabling of W10 Driver Signature Enforcement)

Plug the OTI Saturn 6000 into the USB port. Windows 10 will not request a driver and will install the device with a Microsoft driver that is unsuitable. Open Control Panel/ Devices and check which COM port the reader has installed to:



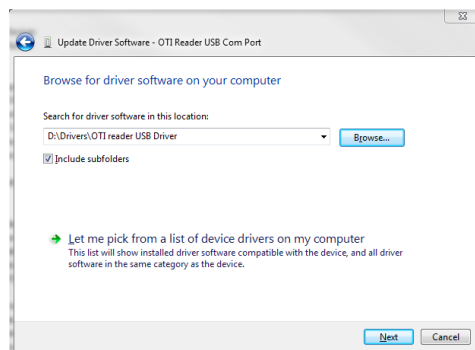
If it does not show the OTI driver, **right** click on the “USB Serial Device (COM x)”, Click on **Properties**, then click on **Update Driver...**



Choose: “Browse my computer for driver software”:

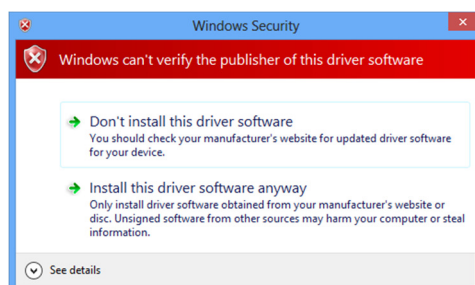
Choose: Let me pick from a list of device drivers on my computer

Choose: Have Disk...



Browse to the location of the “OTI Saturn 6000 reader USB Driver” on the CD. Choose the correct driver. There are two drivers: “otidc” is for 32-bit systems and “otidc64” is for 64-bit systems.

Click Open and then Click OK to install it from the disk  
It will come up with a warning that the Driver is not digitally signed, click Next

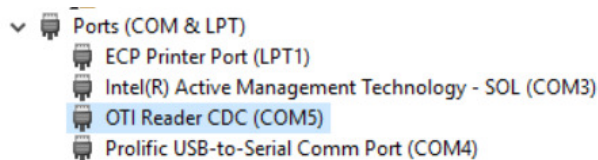


At the next screen

Click, Install this driver software anyway.  
Once the OTI Saturn 6000 reader USB Driver has been successfully installed it will be necessary to Restart the PC.

If you have any difficulties, please consult the pdf document “Saturn USB instructions” in the same folder.

You can double check for successful installation in Device manager:



### QProx QP 3000 contactless reader

Copy the QP3000 folder from the CD to your PC.

Windows 10:

After installing it may show under Other devices, with a warning.

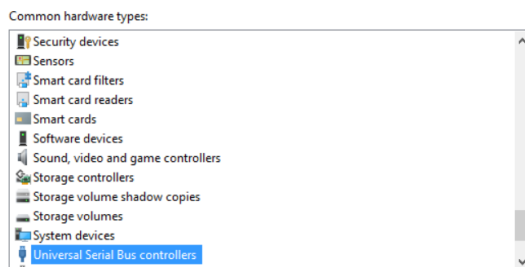
Right click to Update Driver Software

Choose Browse my computer for driver software

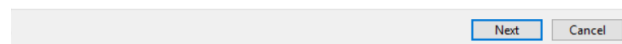
Choose Let me pick from a list of device drivers on my computer

← Update Driver Software - QProx Contactless Reader

Select your device's type from the list below.



Choose Universal Serial Bus controllers from the list:



Click Next

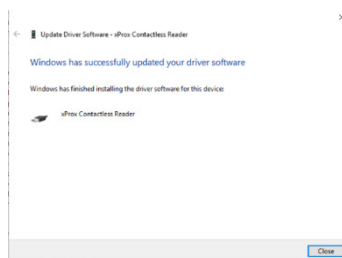
Choose Have Disk ...

Browse to the location of the driver, in the folder QP3000/ xProx USB Driver/ install\_pack choose "xprox" and then click Open

Click OK

Click Next

Windows will install the Driver:



It will appear in Device manager under Universal Serial Bus controllers.

### Omnikey 5X21 Contact and Contactless reader

Connect the reader to a USB port. Windows will install the drivers. When Windows asks for the location of the Driver, please point it to the Drivers folder in the CPT CD and then to the folder named "Omnikey 5X21" and depending on your Omnikey model (5321 or 5421) and your Operating System open the appropriate folder and double click to install.

### Cloud 4700 Contact and Contactless reader

Connect the reader to a USB port. Windows will install the following drivers:  
uTrust 4700F CL and Contact Reader

See Section 5 below for instructions on other contact/ contactless readers.

## **4. Installing USB Stick Dongle Holder**

### **Advanced Card Systems – ACR 38T - USB Stick with Dongle**

If you have been supplied with your Dongle with a USB stick dongle holder (instead of its standard location inside the Barnes reader) you need to install the USB stick device before installing the CPT/CAT software.

The USB stick should be installed **without** the SAM Card/Dongle card inserted.

Connect the USB stick to a USB port. Windows will install the drivers. If Windows asks for the location of the Driver, please point it to the Drivers folder in the CPT CD and then to the folder named “ACR38T USB Stick (Dongle Holder)” and depending on your Operating System open the appropriate folder and double click to install.

Once the driver for the ACR38T is installed then insert the SAM card/Dongle into the stick.

Be very careful to insert the SAM card into the dongle holder in the correct orientation as shown in the very small image on the back of the dongle holder.

Step 1:



Step 2:



Step 3:



If you have to transfer the dongle from the Barnes motorised or manual reader, please ask Barnes for instructions.

## **5. Installing Other Contactless Readers**

### **Advanced Card Systems - ACR122 Reader (“NFC”) – PC/SC Reader**

Connect the reader to a USB port. Windows will install the drivers. After installation the Red light comes on.

### **SCM Contact and Contactless - PC/SC Reader**

Connect the reader to a USB port. Windows will install the drivers. When Windows asks for the location of the Driver, please point it to the Drivers folder in the CPT CD and then to the folder named “SDI010 Contact Contactless reader/SDI01x – Driver 32 & 64bit (W8, W7, Vista, XP,2000)”, highlight the folder “SDI01x\_DRV\_WIN\_EN\_V5.28\_V5.42” and double click to install.

### **VivoPay 5000 Contactless reader**

The **ViVOpay 5000** contactless reader is a serial port device and does not require driver installation.

If you want to use the **ViVOpay 5000 attached to a USB port using the Prolific Serial USB adaptor** (instead of directly connected to the Serial Port on your PC), please install the Prolific Serial Adaptor driver found in the separate Prolific Serial Adaptor Install Disc. Please first insert the Prolific Serial Adaptor Install Disk. On the AutoPlay dialogue screen double click on “Run Setup.exe” to run the installer, or if necessary browse to find the file “Setup.exe” and double click to run the installer.

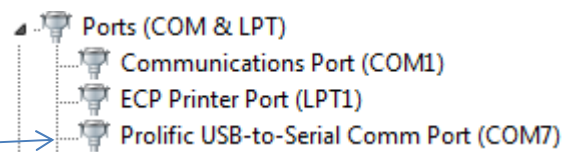
This will install the driver “PL2303\_Prolific\_DriverInstaller\_v1.9.0.exe”.

**Note:** This may not be the most up-to-date driver. If you require a more up-to-date driver you can find this on your CPT/CAT software CD, in the Drivers/ USB-Serial Converter/ PL2303\_Prolific\_DriverInstaller\_v1\_12\_0 (W10, W8, W7, Vista) folder and install PL-2303\_Prolific\_DriverInstaller\_v1.12.0. Windows will install the drivers.

Plug in the USB Serial Adaptor and go to Device Manager to check the COM Port number

- On completion it should indicate the COM port that it has been connected to.
- Alternatively check in Control Panel – System – Device Manager and look in “Ports (COM & LPT)” to see what COM port the reader has connected to.

See example:



Make a note of the COM Port indicated in your Device Manager panel.

Connect the reader to the serial port on the adapter or the PC as necessary and power it up. The CPT software will normally locate the correct COM Port automatically, but if it fails for any reason the user will be prompted to enter the correct COM Port number.

### **MagTek SureSwipe reader**

The MagTek magnetic stripe swipe reader does not require a driver. It can just be plugged into a USB port and added in Reader Setup – see below.



# Install Barnes Tool software

## 6. Install the CPT 3000v3 Software

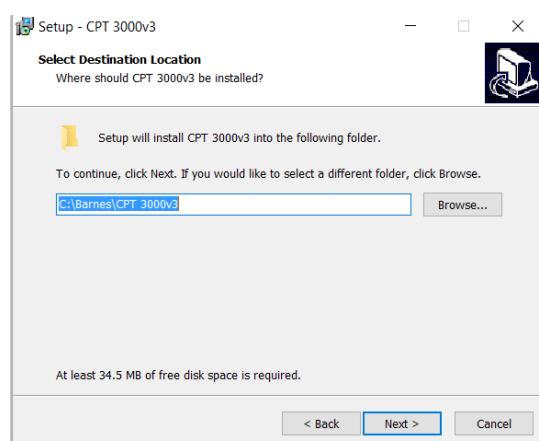
Name	Date modified	Type
AddOns	12/01/2018 10:29	File
Docs	10/05/2018 11:41	File
Drivers	10/05/2018 11:41	File
autorun	16/04/2015 09:54	Set
CPT Release Notes - April 2018 - v1.0	03/05/2018 14:06	Ad
CPT3000v3Installer_3_53_0_Build146	10/05/2018 08:22	Ap
CPTCAT v3_53 6 Step Quick install instru...	10/05/2018 14:30	Ad

Run: "CPT3000v3Installer\_3\_53\_X\_BuildXX.exe"  
(or "CAT3000v3Installer\_3\_53\_X\_BuildXX.exe")  
or "CPVSetup.exe" as appropriate) from the top level of the CD.

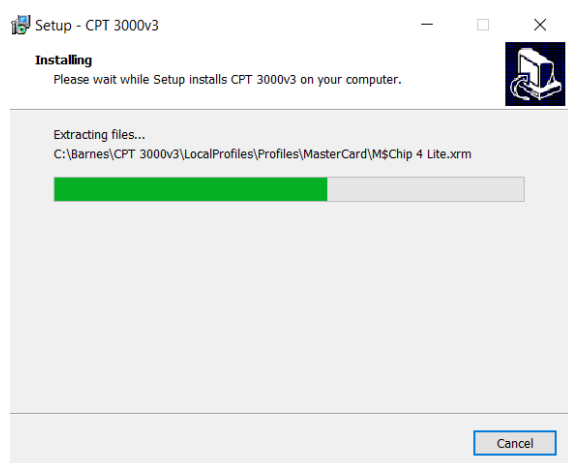
This will start a standard Windows installer, just follow the on-screen instructions to complete the process. NB. CPT/CAT 3000v3 requires the Adobe Reader and .NET 4 framework, if this is not already installed on the PC the missing software will be installed automatically from the CD.

After accepting the License, you can accept or change the default install location. We recommend keeping to this location.

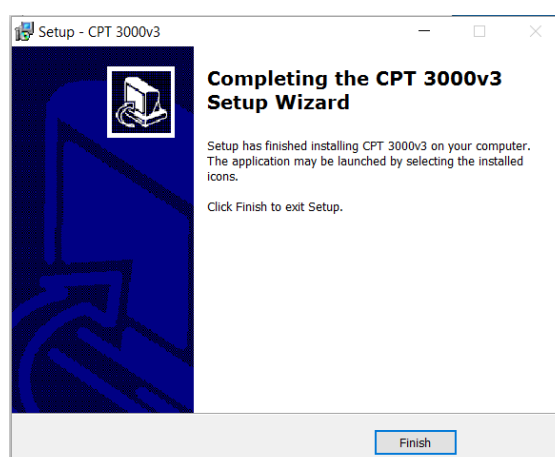
(If installing the MasterCard CPV module, CPT 3000v3 CPV software will be installed automatically in C:\Barnes\CPT3000v3 CPV.)



Click Next



Install will complete:



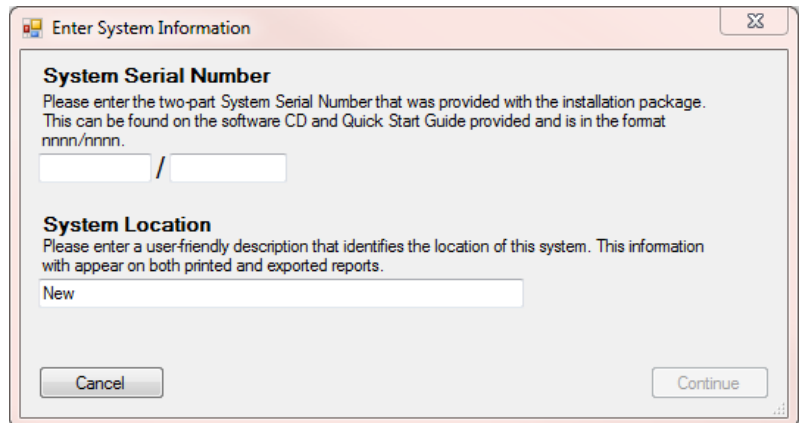
## 7. Start the CPT 3000v3 software

**Do not start the CPT 3000v3 software until your readers are installed.**

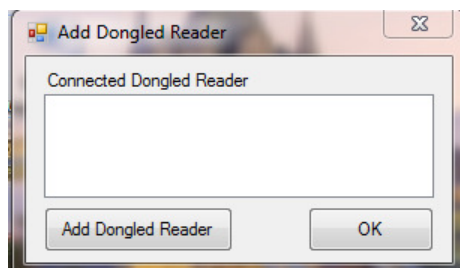
Click on the CPT/CAT3000v3 shortcut on your desktop.



The first time the software is run a dialog will be presented into which the intended System Location and the eight-digit serial number must be entered. The serial number will have been provided, usually written on the CD. Also on this screen the titles for the card save database information fields can be set up. These can be changed later without affecting the operation, only the serial number is critical at this stage.

A screenshot of the 'Enter System Information' dialog box. The dialog has a title bar with a close button. It contains two sections: 'System Serial Number' and 'System Location'. The 'System Serial Number' section has a text box with a slash '/' in the middle, and a note below it stating: 'Please enter the two-part System Serial Number that was provided with the installation package. This can be found on the software CD and Quick Start Guide provided and is in the format nnnn/nnnn.' The 'System Location' section has a text box with the word 'New' inside, and a note below it stating: 'Please enter a user-friendly description that identifies the location of this system. This information will appear on both printed and exported reports.' At the bottom of the dialog are 'Cancel' and 'Continue' buttons.

Following this the “Add Dongled Reader” screen will appear.



Your dongle will be inside one of the Barnes 3K7/3K3, Barnes MagTek IS350 or Barnes 3R1 readers, or it could be inside the USB Dongle holder.



Barnes 3K7/3K3



MagTek IS350

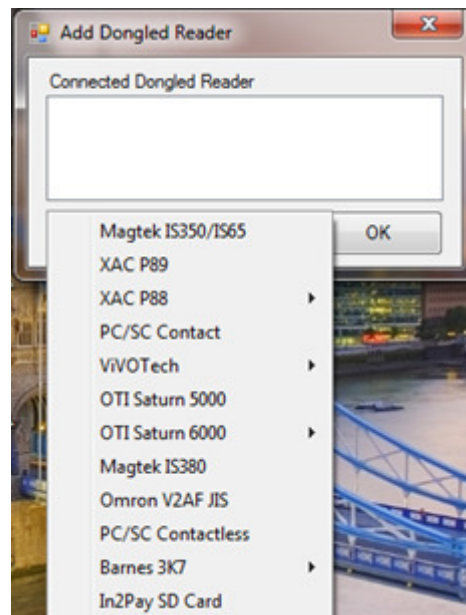


Barnes 3R1

Dongle Holder:

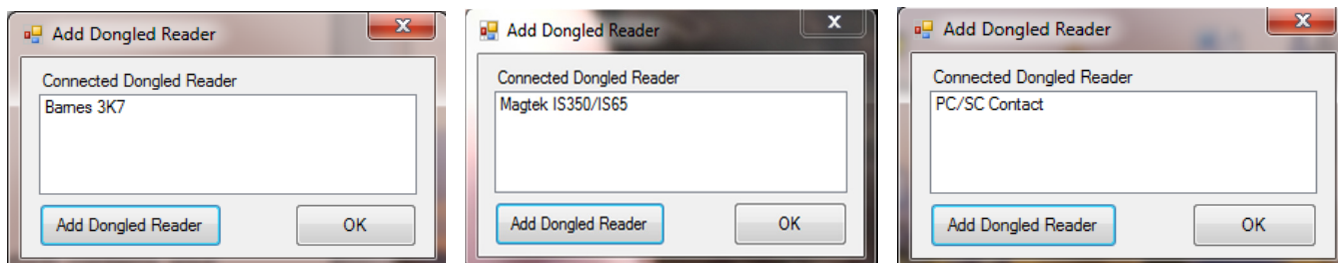


Click on “Add Dongled Reader” and the drop down list of readers will appear:



Choose your reader and if prompted choose “Add”.  
If your dongle is in the USB Dongle holder, choose PC/SC Contact

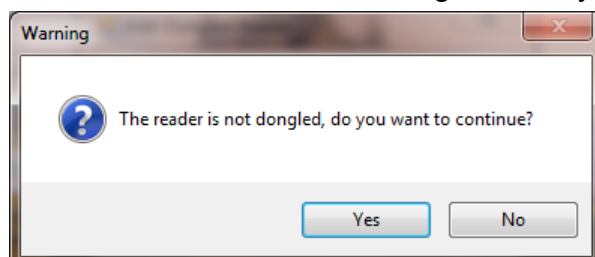
The selected reader will now appear in the window:



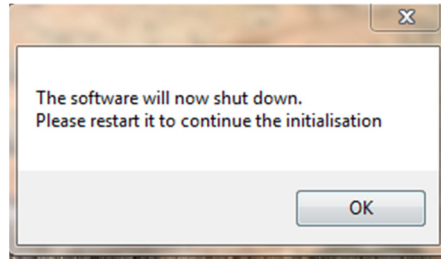
Sometimes it may take a while for the reader to connect. The CPT setup screen will freeze while this is happening. Please wait patiently. If the reader fails to connect, a message will come up asking you to restart the software.

Once the reader or dongle holder appears in the window click OK.

If you have selected a reader without a dongle, the reader you think has a dongle does not have one, or the dongle is faulty, you will be asked to try again



To re-choose the correct reader with the dongle reader please select “No”. If you know your dongle is deliberately not present, please choose “Yes”.



Click on the CPT 3000v3, or CAT 3000v3, icon to restart the software



Following this an authorisation request dialog will appear:

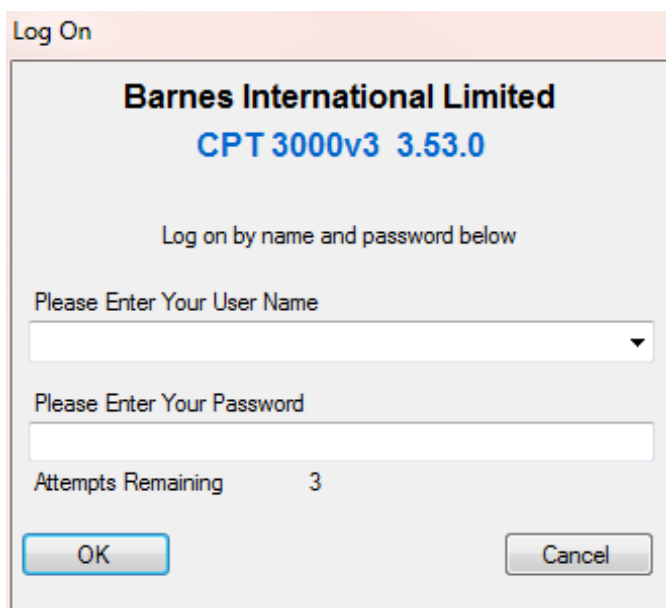
Highlight the Installation code with your mouse and **Copy and Paste** the Installation code into an Email.

Alternatively please click the long box below the installation number ("Create Authorisation Request Document") and send us the completed form which will appear on your desktop.

Please send to [authcodes@barnestest.com](mailto:authcodes@barnestest.com). We can then respond with a new authorisation code. Copy and paste the Authorisation code into lower right box, tick the license box and click on Submit Authorisation Code

If the Authorisation code is not immediately available the software can be shut down at this point and re-started when the Authorisation Code has been received. Enter the Authorisation code; Click in the tick box on the left to agree to the licence terms and then click on "Submit Authorisation Code". The logon screen will appear.

All systems are shipped with a single pre-installed user named "SYSTEM MANAGER", the password being the same as the user name.



The image shows a 'Log On' dialog box for Barnes International Limited CPT 3000v3 3.53.0. The dialog has a title bar 'Log On' and a header area with the company name and version. Below the header, it says 'Log on by name and password below'. There are two input fields: 'Please Enter Your User Name' and 'Please Enter Your Password'. Below the password field, it says 'Attempts Remaining 3'. At the bottom, there are 'OK' and 'Cancel' buttons.

**The default User Name and Password are both “SYSTEM MANAGER”. For added security, the user name “SYSTEM MANAGER” should never be used for general access and the Password must be changed as soon as possible.**

Consult the CPT/CAT help function for details of how to do this. Or please refer to pages 58 – 61 in the user manual (In .pdf format on the CD and on the hard drive following installation).

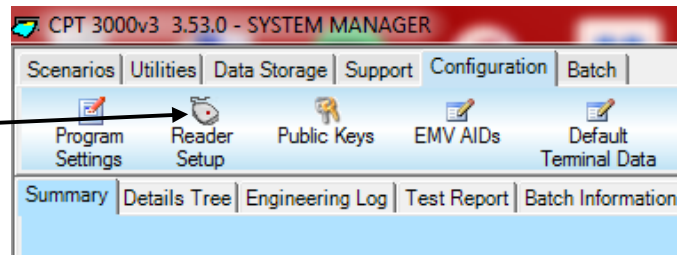
**If you have any additional readers, other than the one that contains the dongle, to connect please continue with reader setup, Section 8, on page 24.**

**If you do not have any readers to add, go to Section 9 on page 28**

## 8. Reader Setup – additional readers

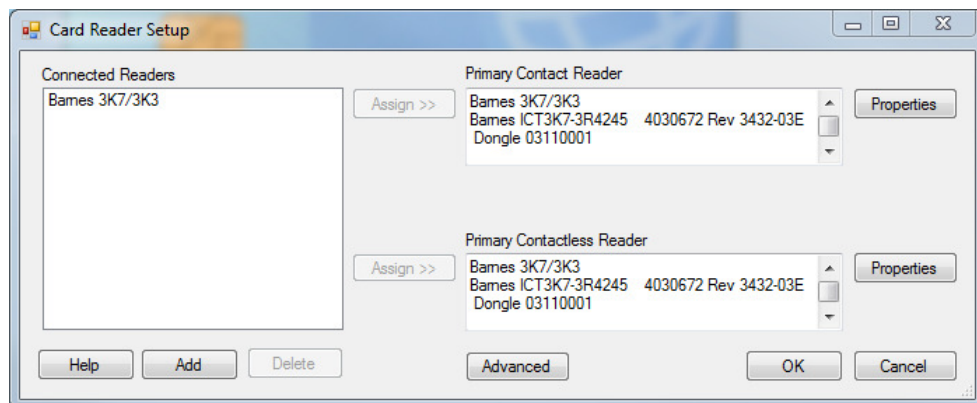
Using the Card Reader Setup, you may now add any other readers that you have.

After logging in, open the Configuration tab and select the Reader Setup button.

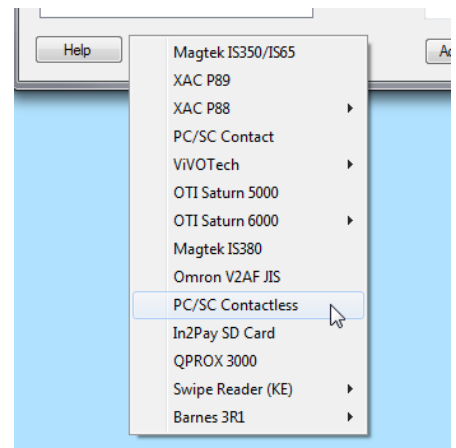
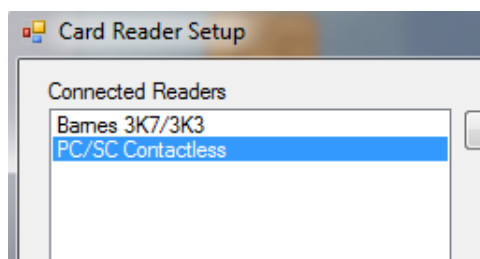


### a. Additional Contact and Contactless readers

The card reader setup will appear with the dongled reader set as both Primary contact and contactless reader.

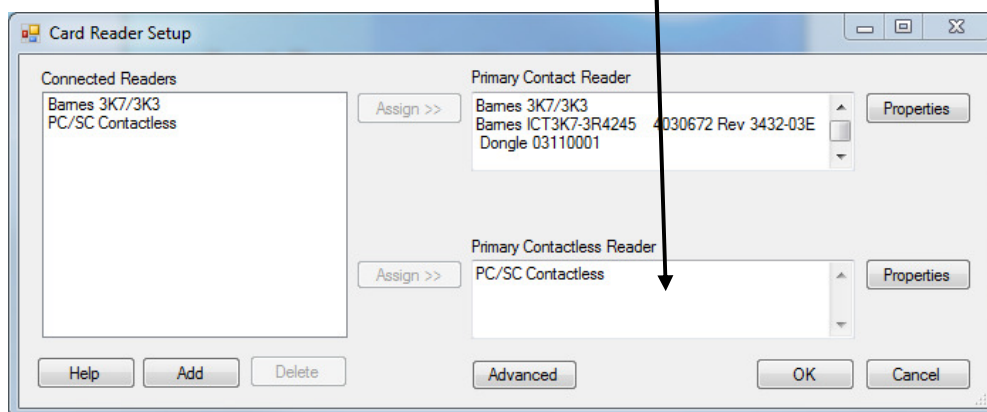


On the card reader setup, click Add and a dropdown list of available readers will appear. Select the working reader you have connected and it should then appear in the connected reader's box. PC/SC contactless has been selected here.



Note: Several readers use PC/SC interface, Omnikey 5421, Cloud 4700, USB dongle holder. You will not see these readers in the dropdown list; alternatively, you need to select the PC/SC contact and/or contactless options.

Now you can assign the reader as a primary reader. Select the reader and click assign and the reader will replace the current reader in the primary reader box.

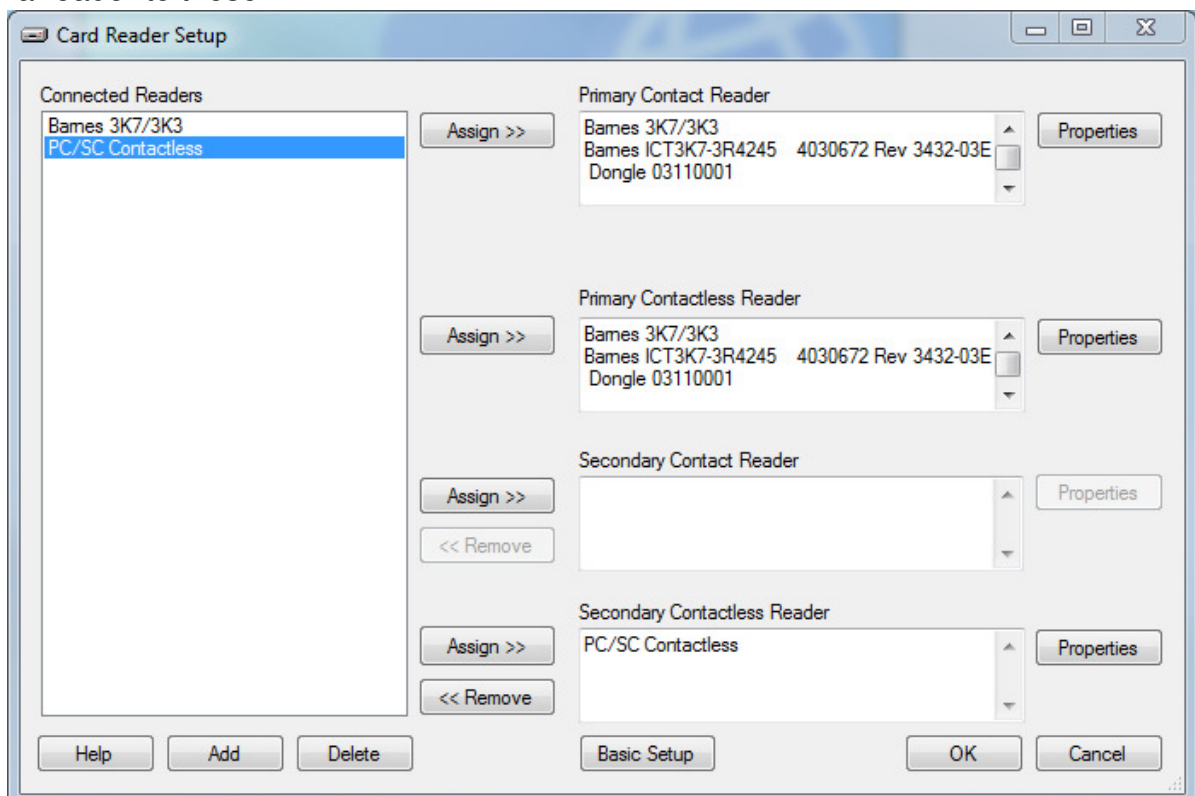


Click the help button for more details of how to use this screen. Unless manually opened the card reader setup will not normally reappear unless a problem has been detected with one of the readers when the software starts.

### **b. Advanced: Secondary Reader slot**

It is also possible to have two contact or contactless readers assigned. For this, you need to click the Advanced button on the card reader setup.

This will expand the setup to show the secondary reader boxes. You can now assign a reader to these.



Here the PC/SC contactless reader has been assigned to the secondary contactless reader box. This means that both readers can now be used as a contactless reader.

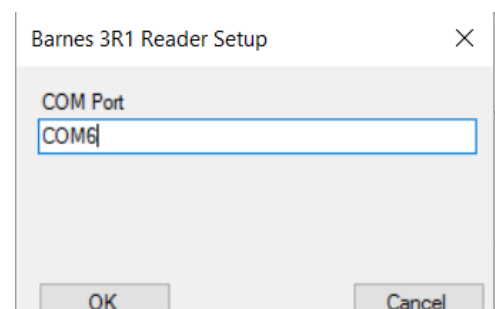
### c. **Barnes 3R1 metal card reader**

The USB Serial converter driver will already have been installed (when you installed the MagTek 350 or Barnes 3K7).

Assemble the Serial cable and USB Serial converter supplied with the reader. Connect the USB cable from the 3R1 to the PC. Go to Device Manager and determine which is the new COM port that it has attached itself to.

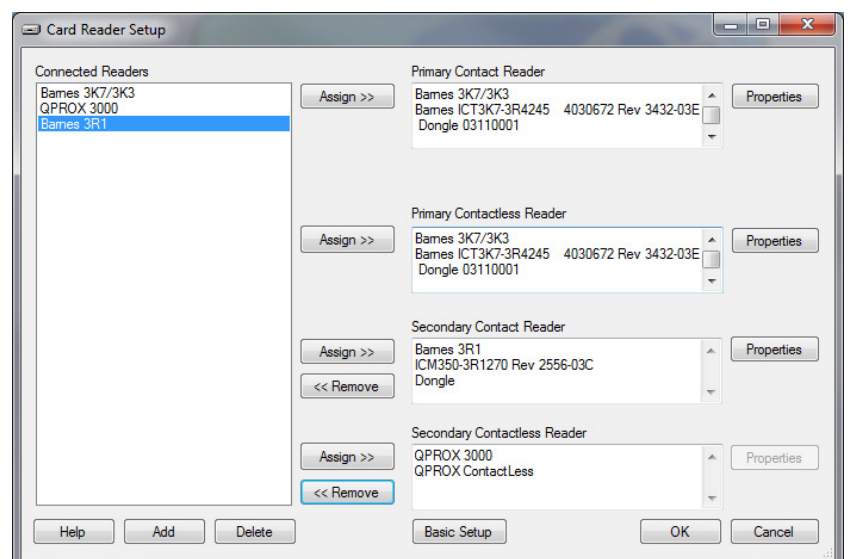
Open reader setup, click Add and choose Barnes 3R1. click Add. When the Barnes 3R1 Setup following screen appears amend the COM port to the correct one, e.g.:

Then click OK



Once the reader appears as one of the connected readers, select Contact Primary or Secondary to make it the Primary or Secondary contact reader.

A system with Barnes 3K7 for plastic cards, Barnes 3R1 for metal cards and QProx QP3000 for contactless mobile and other form factors should be set up like this:



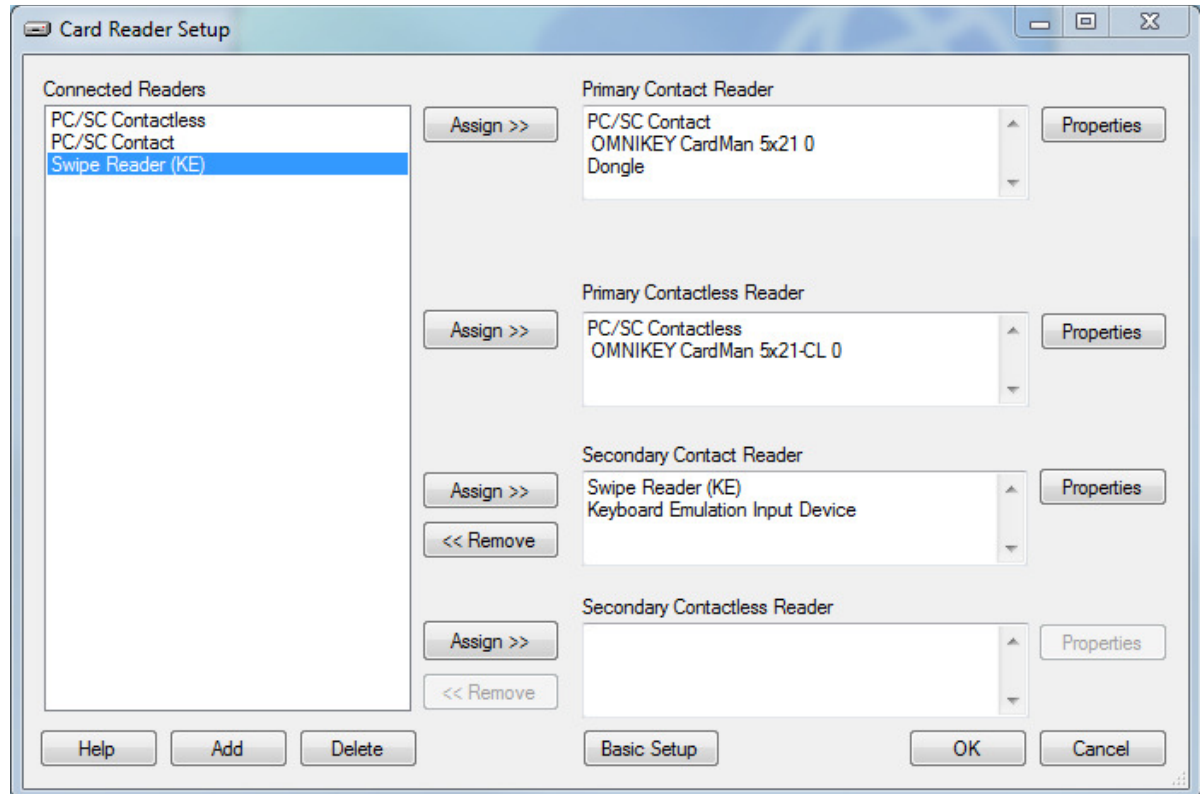
At least one of the readers must have a Barnes dongle installed, in order for the software to operate; currently any one of: Barnes 3K7 Dual Interface, motorised (MagTek IS350) or Barnes manual insertion (Barnes 3R1) supplied by Barnes will serve this purpose. Alternatively, you can use a Barnes supplied USB Dongle holder. Please ask Barnes for details.

Click the help button for more details of how to use this screen. Unless manually opened the card reader setup will not normally reappear unless a problem has been detected with one of the readers when the software starts.

**d. Separate Magnetic Stripe Swipe reader with PC/SC chip reader**

The MagTek swipe readers with Keyboard Emulation can be used with CPT 3000v3. The swipe reader collects the magnetic stripe data. If followed by a separate insertion in a PC/SC reader this will collect the Chip data and CPT 3000v3 will combine both magnetic stripe and chip data in the Engineering Log to complete the test and carry out the personalisation validation.

Reader setup with separate Mag Stripe and Chip readers (and contactless for those with the contactless module):

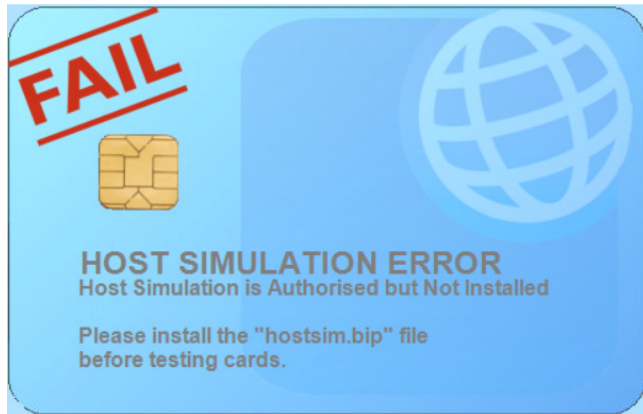


*Note that there are two instances of contact PC/SC reader, the 2<sup>nd</sup> one being the dongle holder holding the dongle necessary to run the software.*

## 9. Immediate Troubleshooting and Useful tips

**If you have purchased the Host Simulation module, you must install the hostsim.bip file before testing a card.**

If you receive this message:



This means that Host Simulation has been authorised and it must be installed before testing a card. Go to Section 10 below and follow the instructions to install hostsim.bip

### **System searching for Driver when card is inserted into a PC/SC reader**

A new feature introduced in Windows 7, 8 and 10 is that when the operating system sees a smart card inserted into a PC/SC reader it will attempt to find a driver for the smart card and will put up a warning when it cannot find one. This feature is intended to facilitate the use of smart card login arrangements for Windows but can cause problems for applications such as the CPT 3000v3 and CAT 3000v3.

This problem only affects **PC/SC** card readers. The Barnes reader and contactless OTI Saturn 6000 and QP3000 readers normally shipped with the test tool are not affected.

The solution is to disable this feature. In Windows 7 & 10 versions other than the “Home” version this feature can be disabled as follows:

- Click Start, type **gpedit.msc** in the “Search programs and files” box, and then press ENTER.
- In the console tree under **Computer Configuration**, click **Administrative Templates**.
- In the details pane, double-click **Windows Components**, and then double-click **Smart Card**.
- Right-click **Turn on Smart Card Plug and Play service**, and then click **Edit**.
- Click **Disabled**, and then click **apply** then **OK**.
- Close the editor.
- Restart Windows

Note: In Windows 7 and 10 Home Editions gpedit.msc is not available. The official line from Microsoft is upgrade to Windows 7 or 10 Pro using Windows Anytime upgrade.

However, there are other possible fixes that may work.

1. Try increasing the time out on the reader.

Or

2. To install gpedit.msc please try the following steps. Disclaimer: We cannot be responsible if this does not work or damages your PC. So at your own risk you can try the solutions below, or search for your own solution using Google.

Windows 7 & 10:

Download a gpedit installer from here, this should work with all versions:

<https://www.itechtics.com/enable-gpedit-windows-10-home/>

If you have 32-bit Windows (x86) then the setup should install smoothly without any problems and you should be able to access the Group Policy Editor through the Microsoft Management Console by going to Run → gpedit.msc. But if you have 64-bit Windows (x64) then you will need some extra steps after running the installer. Follow the steps below after running the installer:

Once downloaded Install as admin

Go to C:\Windows\SysWOW64

copy the following:

Folders: GroupPolicy

GroupPolicyUsers

and

gpedit.msc

Paste them in the following locations:

C:\Windows\System

C:\Windows\System32

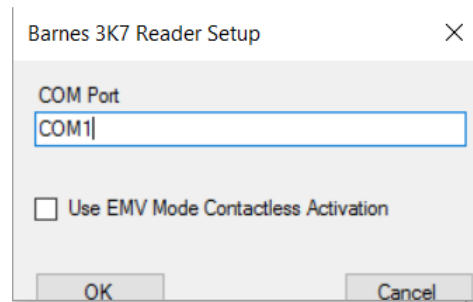
Now hit WINDOWKEY + R

Type: gpedit.msc

Windows 7 Home: You can also try this link:

<http://www.intowindows.com/how-to-get-group-policy-editor-in-windows-7-starter-home-basic-and-home-premium-editions/>

**If you move your reader at any point, from one USB port to another, Reader Setup may lose track of the reader's location and this screen may appear:**



In this situation go to Device Manager and check the correct COM port. Amend the COM port on the screen and then click OK

**The default User Name and Password are both “SYSTEM MANAGER”**  
**For added security the user name “SYSTEM MANAGER” should never be used for general access and the Password must be changed as soon as possible**

Please refer to pages 58 – 61 in the user manual (in .pdf format on the CD and on the hard drive following installation).

If you have any questions or need help with the installation, please send an Email to our technical support team at [support@barnestest.com](mailto:support@barnestest.com) with a brief description of your requirements. Please note that many of the questions asked during installation are covered in the Installation Instructions. Please let us know if we have missed or could improve something in this manual.



## **10. Installing Add-on Packs/Modules or Updates**

If any add-on packs were purchased with the system they will be found in “.bip” files on the CD. A “.bip” file is a Barnes proprietary format which contains everything necessary to install the add-on pack and configure the system to use it. Please install all these files.

In the CPT Menu choose the “Configuration” tab, select the “Administration” icon and choose “Package Installer”, use the file open dialog that is presented to choose the required “.bip” file and then click “Open”. The add-on will be installed automatically. If more than one add-on was supplied then repeat the process for each “.bip” file.

Note that add-ons may be purchased at a later date in which case the “.bip” file will be supplied by e-mail or web download.

### **Current add-ons are:**

Amex_14.4_XXX.bip	– American Express test scripts, only supplied by arrangement.
ATH_1.1_BuildX.bip	- ATH certification test scripts
DPAS_1E.bip	- Discover D-PAS Certification scripts (contact only)
Eftpos.bip	- eftpos Australia QC test scripts
EftposQualify_6_BuildXX.bip	- eftpos CPC certification scripts
Hostsim_v39_BuildXX.bip	– Host Simulator / HSM / HCE test scripts
GPR_3.003_BuildXX.bip	– Visa Personalization Requirements test scripts
JCB_PVTT_Lib_v13.bip	- JCB J/Speedy 3.0 certification scripts
Jcb2_5_BuildXX.bip	- JCB J/Smart 2.0 certification scripts
Mobile.bip	- Mobile test scripts for testing over SWP interface
NETSQualify_Release_2.bip	- NETS Singapore certification scripts
PURE_3_BuildXX.bip	- Gemalto PURE test scripts
RuPay_1_4_BuildXX.bip	- RuPay certification scripts (contact only)
TROY_1.X_BuildXX.bip	- BKM Troy certification scripts

MasterCard CPV - Separate Install Disk

Install CPVsetup.exe using instructions in Sections 6 above (page 19).

Add-on to MasterCard CPV: CPT Pro Issuer F-CPV, currently: fcpv\_103.bip

Install as per Section 9 above.

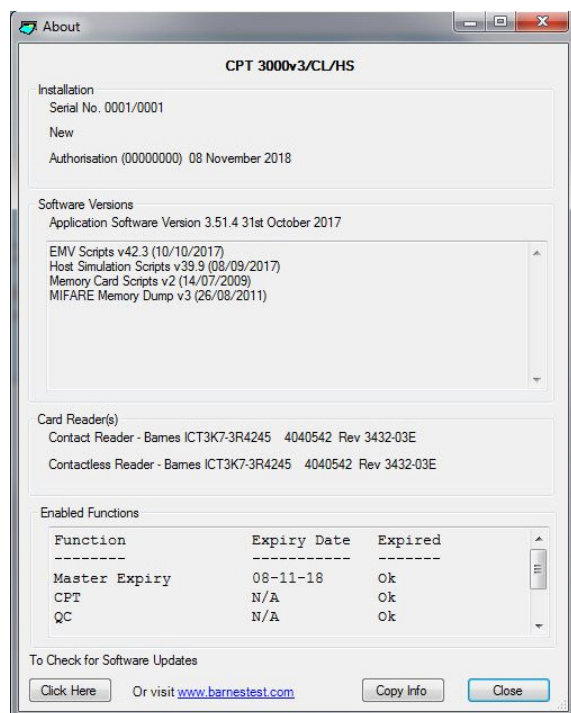
Virtual Card Editor - Separate Package

Test script updates, issued as necessary to cover specification changes and/or fix bugs, will also be supplied in “.bip” files, usually by web download.

**When a CAT/CPT 3000v3 or EMV update is downloaded from [www.barnestest.com](http://www.barnestest.com) it should be saved to a convenient location and installed using the “bip” file method as above.**



## 11. Technical Support Following Installation



For Technical Support following installation please Email [support@barnestest.com](mailto:support@barnestest.com) with as much detail as possible including the installation serial number and the version number of the software in use as well as the primary reader details

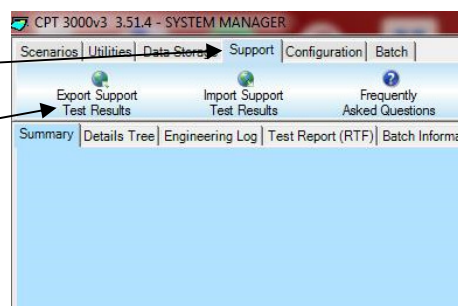
This information can be found on the Help/About screen.

Emailing a copy of the test results is also very helpful:

Go to - Support Tab

Export Support Test Results

Name the file and save it, encrypted if necessary, then Email it to [support@barnestest.com](mailto:support@barnestest.com) with your details and an explanation of the problem



Please note that while Email is a little impersonal we find it a most efficient method of communicating problems and solutions.

We are however always ready to discuss problems on the telephone should you prefer to call us.



## **12. Updating CPT/CAT Software after installation**

Barnes releases software updates periodically. For the latest software updates to the core CAT/CPT software and the EMV scripts please go to:-

<http://www.barnestest.com/support/>

Please remember to backup all important files first, before making any changes.

- Enter the details of your system
- Download and save the .bip files for the latest CPT/CAT software and the EMV scripts
- Run your CAT/CPT3000v3 software and go to the menu options:
  - Select the Menu Tab: Configuration
  - Then select the Icon: Administration
  - Then select: Package Installer
  - Browse to select the CAT/CPTUpdate\_351X.bip package (from wherever you extracted it to) and click Open.
    - In some cases Windows Security settings may cause the automatic installer to fail. If this happens you will get a Package Installation Error. Follow the instructions to locate the install file that has been saved to your hard disc and double click on the cptupdate\_3\_51\_Buildxx.exe (or catupdate\_3\_51\_Buildxx.exe) file to install.
  - Wait a while for the process to start, follow screens, accepting the license and if necessary checking the destination folder, once all steps are complete click Install
  - The CAT/CPT will extract and install the necessary update files.
  - If you have been supplied with a separate Script Fixes file, repeat the first 3 steps above and if available install the latest test scripts file CPT351\_ScriptFixes\_X\_XX.bip
  - The CAT/CPT will extract and install the necessary update files.
  - Note: If installing from an early version, CPT 3.17 or earlier, choose Advanced Options and manually browse to select the correct CPT 3000v3 or CAT 3000v3 directory in which to install the updates

### **Note regarding updating from different versions and use of .NET framework:**

Software versions up to 3.32 used .NET 2.0

Software versions from 3.33 use .NET 4.0

Current software version is v3.51.X

To update from v3.32 or earlier you need to have installed .NET 4.0.

CPT/CAT 3000v3 updates between v3.33 and 3.36b include .NET 4.0.

CPT/CAT 3000v3 updates from v3.40 upwards no longer include .NET 4.0 (as users should already have updated to at least 3.33 or 3.34 which were released in Q3 2012)

### **To update to v3.51.X from v3.32 or earlier, first:**

#### **Either install .NET 4.0 framework obtainable from Microsoft:**

The Microsoft .NET Framework 4 (Web Installer) can be obtained from Microsoft at:

<http://www.microsoft.com/en-us/download/details.aspx?id=17851>

**Or update CPT / CAT 3000v3 in stages:**

1. Update with a version of CPT / CAT software that has the .NET 4.0 installer integrated in the update. The CPT 3000v3 updates v3.33 to 3.36b inclusive include .NET 4.0. So obtain one of these updates first (ask Barnes if you need help) and update to that interim version.
2. Next update from that interim version to the current version:

CPT software from v3.32 or earlier can therefore be updated in two stages first to a version between v3.33 and v3.36b and then from that version to v3.53.X.

If you need any assistance or help during the install and set up process please email [support@barnestest.com](mailto:support@barnestest.com)

**Barnes International Limited**  
May 2018