

How to set up printer to test print JavaPOS & Cashdrawer [BSC10U Model]

*This instruction is testing on Windows 7 and connecting printer through USB Cable *Need to download and install driver printer before following this instruction

1. Download JavaPOS from website https://starmicronics.com/support/products/bsc10-support-page/

ZIP	BSC10 Installation CD Windows 10(32/64-bit),Windows 8.1(32/64-bit), Windows 8(32/64-bit), ■ 1 file(s) ■ 147MB	DOWNLOAD
E ZIP	JavaPOS Driver for BSC10 for Windows 64-bit Systems Windows 10(64-bit), Windows 8.1(64-bit), Windows 8(64-bit), Windows I file(s) ■ 2.5MB	DOWNLOAD
ZIP	JavaPOS Driver for BSC10 for Windows 32-bit Systems Windows 10(32-bit), Windows 8.1(32-bit), Windows 8(32-bit), Windows 1 file(s) 2.4MB	DOWNLOAD
	1 2 >	
Linux		

2. Create folder "JavaPOS\JPOS" on Disk C: [C:\JavaPOS\JPOS] and copy + paste file from original folder into new folder which you created.

nclude in library	 Share with Burn New folder 	
	Name	Date mo
	K BackgroundSettingTool.exe	4/6/2556
	BackgroundSettingTool.exe.config	9/10/255
es	ioconnection.jar	7/3/2556
	IOConnectionJ.dll	11/4/255
	IOPortConnection.dll	7/3/2556
	📓 jcl.jar	13/2/255
	ipos.xml	8/11/256
	jpos113-controls.jar	13/2/255
	📋 readme.txt	9/7/2550
	🔁 SoftwareLicenseAgreement.pdf	7/11/255
	🔁 SoftwareLicenseAgreementAppendix.pdf	7/11/255
i)	star.gif	13/2/255
):)	StarCashDrawerTest.class	8/11/256
	StarCashDrawerTest.java	8/11/256
	📓 starjavapos.jar	9/7/2556
	🔁 starjavapos_sm_en.pdf	10/7/255
	StarJavaPOS_USBPrinterClass_Settings_Documents.doc	3/6/2556
	StarReceiptTest.class	8/11/256
	StarReceiptTest.java	31/7/256



3. Connect printer to windows through USB Cable then windows will be get driver printer automatically [Control Panel > Device and Printer]



4. Get into folder C:\JavaPOS\JPOS then right click at "jpos.xml" file and select "Edit"

🐝 Backgı	roundSettingTool.exe	4/6
📄 Backgi	roundSettingTool.exe.config	9/1
🛋 ioconr	nection.jar	7/3
🥣 IOCon	nectionJ.dll	11/
🦻 IOPort	Connection.dll	7/3
📓 jcl.jar		13/
📄 jpc	Open	27/
📓 јрс	Edit	13/
📋 rea	Edit with Adobe Dreamweaver CS5.5	9/7
🔁 Sof 📄	Edit with Notepad++	7/1
🔁 Sot	Open with	▶ 7/1
📑 sta 🎦	Add to archive	13/
📄 Sta 🎦	Add to "jpos.rar"	8/1
📄 Sta 📻	Compress and email	27/
📧 sta 🚡	Compress to "ipos.rar" and email	9/7
🔁 sta 🗂	Restore previous versions	10/
🖳 Sta		3/6
📄 Sta	Send to	8/1
Sta	Cut	31/
	Сору	
7/5/2556		



5. Change "POSPrinter_windows_usb_printer_class" to "BSC10" [No.1] and fill in "BSC10" at

the model [No.2] and save file

xml version="1.0" encoding="UTF-8"?
JposEntries PUBLIC "-//JavaPOS//DTD//EN" "jpos/res/icl.dtd"
<pre><jposentries></jposentries></pre>
 sposEntry logicalName="POSPrinter_windows_serial">
<pre>creation factoryClass="com starnicronics stariayapos ServiceInstanceFactory" serviceClass="com starnicronics stariayapos POSPrinterService" /></pre>
sugndr name. Star Micronics" url: "www.star.min/eno/index.htm" />
<pre>cince citizani/ = DOSpirite/ uproint="1.12" /></pre>
spos category = 1 con time + version= 1.10 / 2 considual description="Thermal resolution trainers" anno="Star Micronics DOSPrinter controller" util="usual dar min/ona/index htm"/\
corea paras-"specific transmission of the second s
sprop name - index type - sumg value - bool 0 // ///////////////////////////////
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<pre><pre>prop name= porceewigs type= string value= 9000,no,n, n ///////////////////////////////</pre></pre>
<pre><pre>prop name= io nameourymis (ype= meger value= 5000 7/2)</pre></pre>
<pre><pre>prop name= emulation type= suring value= Esc/POS /></pre></pre>
prop name= docneckedBlock=nnung type= Boolean Value= True 7>
<prop name="useNVBitimage" type="Boolean" value="False"></prop>
<prop name="useNVBitImage" type="Boolean" value="False"></prop>
<prop name="useNVBitImage" type="Boolean" value="False"></prop>
<prop name="useNVBitImage" type="Boolean" value="False"></prop> <jposentry logicalname="BSC10"> 1</jposentry>
<prop name="useNVBitImage" type="Boolean" value="False"></prop> 1
<prop name="useNVBitImage" type="Boolean" value="False"></prop> 1 <creation factoryclass="com.starmicronics.starjavapos.ServiceInstanceFactory" serviceclass="com.starmicronics.starjavapos.POSPrinterService"></creation> <vendor name="Star Micronics" url="www.star-m.jp/eng/index.htm"></vendor>
<prop name="useNVBitImage" type="Boolean" value="False"></prop> 1 <creation factoryclass="com.starmicronics.starjavapos.ServiceInstanceFactory" serviceclass="com.starmicronics.starjavapos.POSPrinterService"></creation> <vendor name="Star Micronics" url="www.star-m.jp/eng/index.htm"></vendor> <jpos category="POSPrinter" version="1.13"></jpos>
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
<prop name="useNVBitImage" type="Boolean" value="False"></prop> 1 2
<prop name="useNVBitImage" type="Boolean" value="False"></prop> 1 2
<prop name="useNVBitImage" type="Boolean" value="False"></prop> 1 2
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<prop name="useNVBitImage" type="Boolean" value="False"></prop> 1 2 2
<pre><pre><pre><pre><pre><pre><pre>class="useNVBitImage" type="Boolean" value="False" /> </pre> </pre> <pre>(JposEntry logicalName="BSC10"> 1 </pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>

6. Back into folder C:\JavaPOS\JPOS again and right click "StarReceiptTest.java" and click "Edit"

New folder		
		Open —
Name		Open
📓 ioconnecti		Edit
IOConnect	2	Edit with Notepad++
🖻 IOPortCon		Add to archive
📓 jcl.jar		Add to "StarReceiptTest.rar"
🔮 jpos.xml		Compress and email
📓 jpos113-co		Compress to "StarReceiptTest.rar" and email
📋 readme.txt		Restore previous versions
🔁 SoftwareLi		itestore previous versions
🔁 SoftwareLi		Send to > 5
🔳 star.gif		Cut
StarCashDr		Copy
StarCashDr		5
📓 starjavapos		Create shortcut
🔁 starjavapos		Delete)
🖷 StarJavaPO		Rename
StarReceipt		Properties
StarReceipt	restij	ava
📓 xercesimpl.j	ar	13/2/2556 11:56
📓 xml-apis.jar		13/2/2556 11:56



- 7. Change "default" to "BSC10" [No.1] and save file
 - try {

// register for asynchronous OutputCompleteEvent notification
printer.addOutputCompleteListener(this);

// register for asynchronous StatusUpdateEvent notification
printer.addStatusUpdateListener(this);

// register for asynchronous ErrorEvent notification
printer.addErrorListener(this);

// open the printer object according to the entry names defined in jpos.xml
printer.open("BSC10"); 1

// claim exclusive usage of the printer object
printer.claim(1);

// enable the device for input and output printer.setDeviceEnabled(true);

printer.setAsyncMode(true);

// set map mode to metric - all dimensions specified in 1/100mm units
printer.setMapMode(POSPrinterConst.PTR_MM_METRIC); // unit = 1/100 mm - i.e. 1 cm = 10 mm = 10 * 100 units

8. Open command prompt by typing "cmd" in search box of the windows and access Disk C:\JavaPOS\JPOS by command prompt, as following photo below



9. Open StarReceiptTest.java again, right click "StarReceiptTest.java" and click "Edit" then copy "javac-classpath jpos113-controls.jar;jcl.jar StarReceiptTest.java" and paste in command

prompt and press "Enter" at the keyboard







10. Open StarReceiptTest.java again, right click "StarReceiptTest.java" and click "Edit" then copy "java -classpath .;starjavapos.jar;joconnection.jar;jpos113-

controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarReceiptTest" and paste in command

prompt and press "Enter" at the keyboard



11. After entering in command prompt, printer will be printing sample receipt and status will be finished



12. Back to folder C:\JavaPOS\JPOS then right click at "jpos.xml" file and select "Edit" again



13. Change "CashDrawer_windows_usb_printer_class" to "BSC10" [No.1] and fill in "BSC10" at the model [No.2] and save file

<JposEntry logicalName="CashDrawer_windows_usb_printer_class"> 1

<creation factoryClass="com.starmicronics.starjavapos.ServiceInstanceFactory" serviceClass="com.starmicronics.starjavapos.CashDrawerService" /> <vendor name="Star Micronics" url="www.star-m.jp/eng/index.htm" />

<jpos category="CashDrawer" version="1.13"/>

roduct description="Printer controlled cash drawer" name="Star Micronics cash drawer controller" url="www.star-m.jp/eng/index.htm"/>

<prop name="portName" type="String" value="usbprn:Star BSC10" />

<prop name="portSettings" type="String" value="" /> 2

<prop name="ioTimeoutMillis" type="Integer" value="5000" />

<prop name="controlPrimaryDrawer" type="Boolean" value="True" />

<prop name="firePulseWidth" type="Long" value="200" />

<prop name="sleepPulseWidth" type="Long" value="200" />

<prop name="capStatus" type="Boolean" value="True" />

<prop name="emulation" type="String" value="ESC/POS" />

<prop name="signalLevelHighWhenDrawerOpen" type="Boolean" value="True" />

</JposEntry>



14. Back into folder C:\JavaPOS\JPOS again and right click "StarCashDrawerTest.java" and click "Edit"

_		Open	
C:) ► JavaPOS		Open	•
		Edit	
New folder	2	Edit with Notepad++	
Name		Add to archive	
😽 Backgrou		Add to "StarCashDrawerTest.rar"	
Backgrou		Compress and email	
📧 ioconnec		Compress to "StarCashDrawerTest.rar" and email	
🦻 IOConne		Restore previous versions	
IOPortCo		Send to	
🛋 jcl.jar			
📄 jpos.xml		Cut	
📧 jpos113-o		Сору	
📄 readme.t		Create shortcut	
🔁 Softwarel		Delete	
🔁 Softwarel		Rename	
🔳 star.gif			
StarCashl		Properties	
StarCash[Drawe	rTest.java 8/11/2565 16:40	
📓 starjavapo	os.jar	9/7/2556 20:40	
🔁 starjavapo	os_sm	_en.pdf 10/7/2556 11:20	

15. Change "default" to "BSC10" [No.1] and save file

```
try {
```

cashDrawer.addStatusUpdateListener(this);

// open the cashDrawer object according to the entry names defined in jpos.xml
cashDrawer.open("BSC10"); 1

// claim exclusive usage of the cashDrawer object cashDrawer.claim(1);

// enable the device for input and output cashDrawer.setDeviceEnabled(true);

```
// check if the drawer is currently opened
// if this check returns true when the drawer is ACTUALLY CLOSED,
// set the drawerClosedOnSignalLow property of this device's entry
// in the jpos.xml file to true
boolean drawerOpenedStatus = cashDrawer.getDrawerOpened();
if (drawerOpenedStatus == true) {
        System.out.println("cashDrawer.getDrawerOpened() == true");
    } else {
        System.out.println("cashDrawer.getDrawerOpened() == false");
    }
```



16. Run command prompt again and access Disk C:\JavaPOS\JPOS by command prompt, as following photo below



17. Open StarCashDrawerTest.java again, right click "StarCashDrawerTest.java" and click "Edit" then copy "javac -classpath jpos113-controls.jar;jcl.jar StarCashDrawerTest.java" and paste in command prompt and press "Enter" at the keyboard





18. Open StarReceiptTest.java again, right click "StarReceiptTest.java" and click "Edit" then copy "java-classpath.;starjavapos.jar;ioconnection.jar;jpos113-

controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarCashDrawerTest" and paste in command prompt and press "Enter" at the keyboard

File Edit Format View Help
// StarCashDrawerTest.java // This file contains sample code illustrating how to use the CashDrawer class to // control your cash drawer. The basic control and status querying mechanisms // are used here. For more advanced usage of the CashDrawer class, see the // JavaPOS specification.
// usage instructions - Windows // 1. compile from command line - javac -classpath jpos113-controls.jar.jcl.jar StarCashDrawerTest.java // 2. execute from command line - java -classpath .;starjavapos.jar.joconnection.jar.jpos113-controls.jar.jcl.jar,xercesimpl.jar,xml-apis.jar StarCashDrawerTest
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\tech07>cd\
C:\>cd JavaPOS
C:\JavaPOS>cd JPOS
C:\JavaPOS\JPOS>javac -classpath jpos113-controls.jar;jcl.jar StarCashDrawerTest .java
C:\JavaPOS\JPOS>java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-contr ols.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarCashDrawerTest cashDrawer.getDrawerOpened() == true StatusUpdateEvent received : drawer closed. Drawer status remains the same after openDrawer() call StatusUpdateEvent received : drawer opened. StarCashDrawerTest finished.
C:\JavaPOS\JPOS>

19. After entering in command prompt, cash drawer will be kick out and status will be finished



How to solve JavaPOS Error Printing [Windows 7]

1. When you test JavaPOS and receive this kins of error "javac is not recognized as an internal or external command, operable program or batch file"

C:\Users\User≻cd\
C:\>cd JavaPOS
C:\JavaPOS>cd JPOS
C:\JavaPOS\JPOS≻javac -classpath jposl13-controls.jar;jcl.jar StarReceiptTest.java 'javac' is not recognized as an internal or external command, operable program or batch file.
C:\JavaP0S\JP0S>

2. Right click on "My Computer" and Select "Properties"



3. Select "Advance System Setting"





4. Select "Advance" Tab and Select "Environment Variables"

Computer Name	Hardware	Advanced	System Protection	Remote
You must be log	gged on as a	an Administrat	orto make most of t	hese changes.
Visual effects,	processor s	cheduling, m	emory usage, and vir	tual memory
				Settings
User Profiles				
Desktop settin	ngs related to	o your sign-in		
				Settings
Startup and R	ecovery			
System startup	o, system fail	lure, and deb	ugging information	
				Settings
			Environme	nt Variables

5. Select "Path" under "System Variables" and Click "Edit" button
Environment Variables

Variable	Value	
PATH	C: \Windows\System32	
TEMP	%USERPROFILE%\AppData\Local\Temp	
TMP	%USERPROFILE%\AppData\Local\Temp	
	New Edit Delete	
ystem variables	Velue	
ystem variables Variable	Value	
ystem variables Variable OS	Value Windows_NT	
ystem variables Variable OS Path	Value Windows_NT C:\Program Files\Java\jdk1.8.0_261\bin;	
vstem variables Variable OS Path PATHEXT	Value Windows_NT C:\Program Files\Java\jdk1.8.0_261\bin; .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;	
vstem variables Variable OS Path PATHEXT PROCESSOR_A	Value Windows_NT C:\Program Files\Java\jdk1.8.0_261\bin; .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; x86	



6. In Variable value editor this at the start of the line "C:\Program Files\Java\jdk1.8.0_261\bin;" [base on latest jdk version on your PC]

Variable name:	Path
Variable value:	C:\Program Files\Java\jdk1.8.0_261\bin;
	OK Cancel
Cor	mputer 🕨 Local Disk (C;) 🕨 Program Files 🕨
Organize 🔻 Incl	lude in library ▼ Share with ▼ Burn
🔆 Favorites	Name
☆ Favorites ■ Desktop	Name
☆ Favorites ■ Desktop ₩ Downloads	Name JavaPOS JavaPOS BK
★ Favorites ➡ Desktop ➡ Downloads ➡ Recent Places	Name JavaPOS JavaPOS_BK JavaPOS_BK32bits
★ Favorites ■ Desktop ₩ Downloads ₩ Recent Places	Name JavaPOS JavaPOS_BK JavaPOS_BK32bits JavaPOS_BK64bits
★ Favorites ■ Desktop ● Downloads ■ Recent Places ■ Libraries	Name JavaPOS JavaPOS_BK JavaPOS_BK32bits JavaROS_BK64bits Migdk1.8.0 261
★ Favorites ➡ Desktop ➡ Downloads ➡ Recent Places ➡ Libraries ➡ Documents	Name JavaPOS JavaPOS_BK JavaPOS_BK32bits JavaPOS_BK64bits jdk1.8.0_261 ire1.8.0_261
 ★ Favorites ■ Desktop ▶ Downloads ™ Recent Places ➢ Libraries ◎ Documents ♦ Music 	Name JavaPOS JavaPOS_BK JavaPOS_BK32bits JavaPOS_BK64bits JavaPOS_BK64bits jick1.8.0_261 jire1.8.0_261 jire8
 ★ Favorites ■ Desktop ▶ Downloads ™ Recent Places ₩ Libraries ■ Documents ↓ Music ■ Pictures 	Name JavaPOS JavaPOS_BK JavaPOS_BK32bits JavaPOS_BK64bits JavaPOS_BK64bits jdk1.8.0_261 jre1.8.0_261 jre8

- 7. Click "**OK**" then "**OK**" again
- 8. Restart command prompt otherwise it won't see the change to the path variable and test again.