# Using the TradeStation Scanner to find "Pinball" Setups

# Introduction

The "pinball setup" is a chart pattern described by Rick Saddler in his Hit & Run Candlesticks group. [ http://www.hitandruncandlesticks.com ]



The chart above shows the basic "pinball setup" that is desired. It consists of a period of downward price movement, with price below the 8ema, followed by an



upward movement crossing above the 8ema. (ema = exponential moving average).

The vertical distance from the 8ema up to the 34ema should be sufficient to create a useful profit -- usually a move of 10% to 15% of the current price is desirable.

In the "w2jc Pinball Scan" all the specific conditions are included, such as the relationships between the various moving averages, the price trend direction, etc. When all the conditions are met, the ticker will appear in the scan results.

Rick Saddler named this chart pattern the "Pinball" setup because the pattern gives a high probability that the price will move UP to the 34ema, then bounce back down to the 8ema, and then perhaps bounce back UP through the 34ema -- similar to the way a pinball bounces around in the old pinball games like the one shown above!

When a Pinball Setup is detected, the position can be opened with a BUY between the 8ema and the 11ema; the target can



be set immediately to just under the 34ema, and the stop can be set based on the chart pattern and your "money management" rules.

At left is the same chart as shown above, with an open position shown on the chart.

Entry is just above the 8ema; the target is set just under the 34ema (orange), and the stop (for now) is set just below the low wick of the July 12 doji. If the price then moves

up toward the 34ema as expected, the stop level can be moved up each day to reduce the loss risk amount.

# **The Scanner**

The "w2jc Pinball Finder" scanner consists of two major parts:

- Conditions set up in the Tradestation Scanner for moving averages
- An EZ-Language code that detects the actual Pinball conditions
   [Note: Version 1.1 has EZ-Language code which also shows Pinball Condition on the Tradestation charts. This will be described in a later section of this User Guide. The same code is used for the chart and for the scanner.]

The "w2jc Pinball Finder" scanner is delivered using one .ZIP file, which contains four files. Three of the files contain the scanner setup, and the fourth file (an .ELD file) contains the EZ-Language code for import into Tradestation. (The .ELD file is coded for your specific TS customer ID number, and can be used from any computer but only when you log into <u>your</u> TS account.) An additional file (**winzip81.exe**) is included from which you can install the WinZip utility if you do not already have it on your computer [it is used to open the .ZIP file mentioned above.]

## **Installation**

If you do not already have WinZip installed on your computer, install it now.

[We encourage you to use WinZip to install the w2jc Pinball Scanner because all of our instructions in the following sections use WinZip screen shots as examples, and we have found that users who try to use other Zip extractors have difficulty following the installation instructions correctly.]

- Save the **winzip81.exe** to your hard drive.
- > Left double-click on the winzip81.exe filename to open the install file.



Left-click on the [Setup] button.



 If you prefer to install in a different folder, use [Browse] to select that target folder. Then click [OK]. The setup should start with this window:

WinZip Setup	Thank you for installing WinZip!
	WinZp features include: * Quick and easy zip and unzip * Optional Witard interface * Email support, including 20 and E-Mail from Explorer * Tight integration with the Windows shall * Internet file format support, including MIME, TAR, & CAB * Support for self-extracting files Press the F1 key on your keyboard at any time while running WinZp for context sensitive help and complete documentation. Click Next to continue.
	Help < Back Next > Close

- Click [Next >] to continue.
- Accept the License Agreement by clicking [Yes].
- In the "WinZip Quick Start" window, click [Next >] to continue.
- In the "WinZip Setup" window, left-click the button at the left of "Start with WinZip Classic" - then click [Next >] to continue.

WinZip Setup	Select "Wizard" or "Classic", then click "Next"
WINZ	You can start with the "Wizard" or "Classic" interface. It is easy to switch between the two interfaces, and you can always change the default later.
	The Wizard automates the most common tasks involving Zip files and is ideal if you want to quickly unzip files or install software distributed in Zip files.
Ele Contraction Fa	Start with the WinZip Wizard WinZip Classic is much more powerful and is recommended if
nat Name Name Readme.bt	you are comfortable with Windows and Zip files.  Start with WinZip Classic
Di III Steam ave	
	Help < Back Next > Close

 In the next "WinZip Setup" window, click the button at left of "Express setup" (unless you are an 'advanced' computer user and have specific reasons to use the Custom setup); then click [Next >] to continue.

WinZip Setup	
	Click "Next" to proceed.
WINZE	Express setup (recommended)
	Custom setup (for advanced users)
Id Date Provide the Control of Co	Express Setup associates WinZip with archives, creates a program group, and puts WinZip icons on the desktop and Start menu.
	Help < Back Next > Close

• In the next "WinZip Setup" window, click the [Finish] button.



 The "WinZip (Evaluation Version)" window should now open; if the "Tip of the Day" window opens, click [Close].



- Minimize the WinZip window by left-click on the [-] button, as shown by the arrow in the above screen shot.
- WinZip is now installed and ready to be used in the following installation of the Pinball setup finder by w2jc

- Extract files from the .ZIP archive
  - Save the file Pinball setup finder by w2jc.zip to your hard drive
    - Suggestion: save to folder C:\temp\
    - If the 'temp' folder does not exist, create it & then copy the .zip file there.



- > Open the file **Pinball setup finder by w2jc.zip** using the WinZip program.
  - In the Task Bar at the bottom of the screen, right-click the WinZip tab and select Restore or Maximize; the WinZip window should appear.

		and a						
Open	Favorites	Add	Extract	View	CheckOut	<b>Wizard</b>		
+		Modified		Size Ra	atio Packed	Path		
	Open	Open Favorites		Modified	Modified Size R	Modified Size Ratio Packed	Modified Size Ratio Packed Path	Modified Size Ratio Packed Path

Use the "Open Archive" File Explorer to locate C:\temp\Pinball setup finder by w2jc.zip

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Look in: 퉬 t	emp		•	G 🤌 🖻		-
Name	Artists	Album	#	Genre	»	
🔍 Pinball se	tup finder by w2	ljc.zip				
File name:	Pinball setup finde	er by w2jc.zip			Open	
Files of type:	Zip files				Cancel	
				[	Help	
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Click [**Open**] to see the files contained in the .zip archive.

• You should see four files contained within the .zip archive

File Actions Options Help									
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2010-07-30 234756.tsrslts	1	<b>FSRSLTS</b> File			7/31/2010 1:15 AM	224,256	94%	12,501	Pinball setup finder by w2jc.tsscan\
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details.tsscan	١	FSSCAN File			7/31/2010 1:34 AM	3,273	81%	638	Pinball setup finder by w2jc.tsscan\
•									
Selected 0 files, 0 bytes				Т	otal 4 files, 395KB				0

[Note: in the last file, ###### will be replaced with your TS customer ID number.]

Left-click once (to select) on W2JC-PB BUY DETECT&PLOT ###### 1-02.ELD

[Note: in the above file, ###### will be replaced with your TS customer ID number; and the 1-02 might be replaced with a later version number.]

• Left-click once on the Extract button



In the "Extract" window, select the 'Browse' button and browse to place the .eld file into the folder at: C:\Program Files (x86)\TradeStation 8.8\Export then click the "Extract" button at upper right of this window.

[Note: the path, TS version and Build number may differ if you have updated TS.]

Extract	? <mark>- x</mark> -
Extract  Edtract to: C:\Program Files (x86)\TradeStation Files Selected files All files Files: Overwrite existing files Skip older files Use folder names Open Explorer window	Extract

Use *File Explorer* to confirm that the file is in the **\Export** folder:



 WinZip should still be open -- return to that window and select the <u>other</u> three files... (left-click on the first filename, press the Ctrl key and hold down, left-click on the next two files; release the Ctrl key and left-click on the Extract button)

🗐 WinZip (Evaluation Version) - Pinball setup fin	der by w2jc.zip				
File Actions Options Help					
New Open Favorites Add	Extract View Check	Out Wizard			
Name	Туре	Modified	Size	Ratio Packe	d Path
🛃 W2jc-pb buy detect&plot ######1-02.eld	EasyLanguageDocumentFile	7/31/2010 12:40 PM	10,367	29% 7,38	37
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details.tsscan	TSSCAN File	7/31/2010 1:34 AM	3,273	81% 63	8 Pinball setup finder by w2jc.tsscan\
•					
elected 3 files, 385KB		Total 4 files, 395KB			•

In the "Extract" window, left-click once on the "arrow down" button (purple circle) which should return the previous path to the window; left-click on the [+] at left of "Scans" and left-click once on "\_root" (Note: if clicking the "arrow down" button did not restore the Tradestation path, then set the Extract to: path to the following:
 C:\Program Files (x86)\TradeStation 8.8\Scans\\_root ). [Note: the path, TS version and Build number may differ if you have updated TS.]

Extract to: C:\Program Files (x86)\Trade	Station 8.8\Scans\ pot	Extra
Files Selected files All files Files: Overwrite existing files Skin older files Use folder names Open Explorer window	Folders/dyres: Folders/dyres: TotalRecorder TotalRecorder TradeStation 8.7 (Bulk Cutom Symbol Lat Desktops Desttops De	

Be sure the box at left of **Use Folder Names** is checked.

- Left-click once on the "Extract" button at upper right of window.
- WinZip should create a new sub-folder Pinball setup finder by w2jc.tsscan and the three selected files should now be in that sub-folder.
- Use *File Explorer* to confirm that the three files are correctly placed:

File Edit View Tools Help					
🎍 Organize 🔻 🏢 Views 🔻 🚷 Burn					
Folders	~	Name	Date modified	Size	Туре
🖌 퉲 Scans		2010-07-30 234756.tsrslts	7/31/2010 1:15 AM	219 KB	TSRSLTS File
a 📗 root		2010-07-31 011201.tsrslts	7/31/2010 1:34 AM	162 KB	TSRSLTS File
Bearish Engulfing.tsscan		details.tsscan	7/31/2010 1:34 AM	4 KB	TSSCAN File
Bullish Engulfing.tsscan					

- Note: the important file here is the details.tsscan file; the other two files are previous scan results, as examples.
- The WinZip window should still be open; return to it, left-click File [upper left], left-click "Close Archive" then left-click File and Exit to close the window.
- > This completes the extraction of the files from the ZIP archive.

- Import the .ELD code file
  - With Tradestation open (in either Simulator or Real-time), left-click once on File at top left of window; then left-click on Import / Export EasyLanguage
    - In the "Import/Export Wizard" window, left-click once on "Import EasyLanguage file"; then click on the "Next" button.

Import EasyLanguage from TradeStation.com         Import EasyLanguage file (ELD, ELS or ELA)         Export EasyLanguage Documents file (ELD)         Export EasyLanguage Documents file (ELD) <t< th=""><th>Inputs AP( 02),</th><th>Please select a Wizard from the list below:</th></t<>	Inputs AP( 02),	Please select a Wizard from the list below:
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Import analysis techniques from any of the following file types: ELD (TradeStation) ELS (2000 version applications) ELA (4.0 version applications)	Contactutaryd Photos	Description
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• In the "Import Wizard" window, click the Browse button.

	File name:			
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In the "Open" window, locate the file W2JC-PB BUY DETECT&PLOT ###### 1-02.ELD

[Note: in the above file, ###### will be replaced with your TS customer ID number; and the 1-02 might be replaced with a later version number.]

in the folder C:\Program Files (x86)\TradeStation 8.8\Export

and then click the **Open** button.

🕜 Open		×
- HP-2 (C:) > Program Files (x86	i)	م
🌗 Organize 👻 🏢 Views 👻 📑 New Folder		0
Favorite Links	Name	Date modified
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Folders 🗸	W2JC_SOAP_COMPOSITE.ELD	8/27/2009 1:40 AM
<ul> <li>TradeStation 8.8</li> <li>CAL</li> <li>Custom Symbol Lists</li> <li>Desktops</li> <li>Export</li> <li>Internet</li> <li>Layouts</li> </ul>	Image: State Stat	9/1/2009 12:15 PM 8/31/2009 3:58 PM 7/26/2009 5:40 PM 10/21/2008 11:32 7/31/2010 12:40 PM 7/25/2010 11:34 PM
File name: W2JC-PB BUY DETEC	T&PLOT ####### 1-02.ELD	anguage Archive (ELA, 🔻
History		pen Cancel

In the "Import Window" the File name: window should now show the path to the .eld file -- left-click the Next button.



 In the next "Import Wizard" window, be sure the box at left of "Indicator" has a check-mark in it; if not, then left-click once in the box to create a check-mark. Then left-click the Next button.



- In the next window, be sure there is a check-mark at left of the Indicator name; then click the **Finish** button.
- This should complete the installation of the W2JC-PB BUY DETECT&PLOT indicator.

# **Using the Pinball Scan**

### **Tradestation setup**

The following procedure will set up a new Workspace on your existing Desktop, into which will be placed the Scanner Control Panel. This will allow you to keep the scanner separate from the Workspace containing your charts and matrix.

- With Tradestation open, left-click **File** (at upper left of window); then click **New**; then click **Workspace**.
- On the top command line of the window, left-click on **View**; then click **Toolbars** (at bottom of pop-up)
  - Be sure there is a check-mark at the left of both "Main" and "Tools & EL Shortcuts"
    - If there is no check-mark, left-click once in the area at left of the toolbar name.
  - Left-click in the open grey area of the workspace to close the drop-down menus.
- In the "Tools & EL Shortcuts" toolbar, find the "New Scanner Window" button and left-click on it.



- > A "Tradestation Scanner" window should open in the Workspace.
  - In the left column should be seen all the Scans that are present on your system; one of them should be the newly installed **Pinball setup finder by w2jc** scan.



 Under the name of the scan, if the [+] box has been clicked, will be listed the results of the most recent scans. (Your new installation of this scan should show two scan results, since we installed them from the .zip file). An example of scan results is shown below:

Scan	A Status		Symbol	Close	Vol (Today)	Mov Avg Exp.	Mov Avg Exp	Mov Avg Exp.	Nov Avg Exp.	Mov Avg Exp.	Mov Avg Exp.	Mov Avg Exp.	Nov Avg Exp.	Mov Avg Exp.	Mov Avg Exp.	Mov Avg Exp.	w2jc-pinbal
🗟 🍠 Bearish Engulfing	idle	1	AUK	1	10,133,096		1	1	1)	1	1	1			1		t True
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🖬 👂 Head & Shoulders	idle.	3	APPY		520,965												t True
E 🖡 Pinball setup finder by w2jc	Scheduled	4	BANR		3,387,958		3		3				2		2		2 True
07/19/10 03:23:59 PM		5	CNAM		725,260		4	4		4							3 True
07/13/10/08/31/20 PM		6	0000	10	2,903,099		1 31	2 1	0 1	1 1		5 1	5 10	0 1	1	1 11	0 True
Red candle new high	ide -	7	CRIS	2	405,138												True
🗃 🛅 jec-scans			CWTR		957,346		4	5	4	6	4	4			4		4 True
		9	DCTH		2,815,914		9	9	8	9		1			1 3		7 True
		10	FBC		1,805,321		4	4	4	4		4					3 True
		11	FCEL		2,458,805												True
		12	000	13	298,429			6 1	4 1			4) t	3 1		3 1		3 True

Note:

You can select the tickers in the **Symbol** column (place mouse over top ticker, press and hold left mouse button, drag down to last ticker in column and release the left button), Copy (**Ctrl C**) and then Paste (**Ctrl V**) them into the Symbol column of a **Radar Screen** (in any open Workspace).

Also, the default setup for this scan creates a *Custom Symbol List* called "**Pinball\_setup\_now**" which can be used anywhere a symbol list is used.

 At the bottom of the Workspace window will be Tabs for each Workspace you have open; find the one labeled "Untitled Workspace" and right-click on it. From the pop-up menu, select "Save Workspace As" and in the File name: window of the pop-up enter Scanner and then click on the Save button.

Save in: 🔒	MyWork	- 0 0	1 🗗 🛄 • 🛛 🔹
	Date modified	Туре	Size
al-1AA.tsw	7/16/2010 10:48 PM	TradeStation Wor	1,534 KB
ce-range_0	7/16/2010 10:48 PM	TradeStation Wor	544 KB
Stick Analy	7/15/2010 2:19 PM	TradeStation Wor	1,540 KB
1223-jec.tsw	7/15/2010 2:19 PM	TradeStation Wor	279 KB
ling_jec-09	7/15/2010 2:19 PM	TradeStation Wor	515 KB
•		m	
File name:	Scanner 🔶		Save
Save as type:	TradeStation Workspa	ce Files (*1sw) 🔹	Cancel
			Help

• You can now open the Workspace "Scanner" any time you want to work with the Scans.

### Scanning with the Pinball setup finder by w2jc scan

To use your new scan, simply open the "Scanner" workspace

( click File, Open Workspace, and select the Scanner workspace from the file list) and then left-click once on **Pinball setup finder by w2jc** to select that scan.

At the bottom of the right side of the "Tradestation Scanner" window,

be sure that the "Results" tab has been selected;

if it has not, the left-click once on the tab to select it.

Scan	▲ Status	
🗄 🗧 Bearish Engulfing	Idle	
🗄 🗧 Bullish Engulfing	Idle	
🗄 🗧 Head & Shoulders	Idle	
🖃 🔰 Pinball setup finder by w2ji	c Scheduled	
07/19/10 03:23:59 PM		No symbols met the
07/13/10 08:31:20 PM		
표 🗲 Red candle new high	Idle	
🕀 🛅 jec-scans		
Insert Format	Bun	KALE Added/Dropped & Settings & Log /

To run the scan once, simply click on the "Run" button (see above). As the scan runs you will see the progress:

Scan	▲ Status		
🗄 🐔 Bearish Engulfing	Idle	Retrieving symbols:	
🗄 🗧 Bullish Engulfing	Idle	100%	Symbols: 7847
🗄 👂 Head & Shoulders	Idle		
Pinball setup finder by w2	2jc Running	Applying server filter:	
07/19/10 03:23:59 PM		100%	Symbols: 2096
07/13/10 08:31:20 PM		Calculating EasyLanguage:	
🗄 🖗 Red candle new high	Idle		
🗄 🛅 jec-scans		11%	Symbols: 2096

If you want to have the scan run "automatically" you can set up a schedule by clicking on the "Format" tab (see above) and then the "Schedule" tab, then select your desired settings.



#### **Customizing Tradestation scans**

### Specific settings for Pinball setup finder by w2jc

### **Default Settings**

As shown above, the **Pinball setup finder by w2jc** should show in the list of scans.

There are several "variables" which can be set by the user to change the operation of the scan; these can be accessed by clicking on the [Format] button at the bottom of the list of scans.

#### Symbol Universe

• The default setting is "all stocks."

#### Scan Criteria

The user is cautioned about making any changes to the settings in this section; they have been selected for optimum functioning of this particular scan.

ame	Symbol Universe Scan Crite	ria Schedule	Re	sults No	tifica	ation			
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	Input/Setting Name	Value				Input/Setting Name	Value		ſ
	Price	Close				Price	Close		
	Length	34				Length	55		
	Displace	0				Displace	0		
	Interval	Daily	•			Interval	Daily	•	
	Max # bars to reference	Auto-detect	•			Max # bars to reference	Auto-detect	•	
	Load additional data	200				Load additional data	200		
	Currency based on	Account	•			Currency based on	Account	•	
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🗹 🕀	🔑 Mov Avg Exponential	▼ AvgExp	•	<=	•	💬 Close		•	
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ame	Symbol Universe Scan Crit	eria Schedule Re	esults Notific	cation		
Select t	he criteria to use in the scan	:				
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	Price	Close		Price	Close	
	Length	13		Length	21	
	Displace	0		Displace	0	
	Interval	Daily -		Interval	Daily	
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	Load additional data	200		Load additional data	200	
	Currency based on	Account 🔻		Currency based on	Account 1	
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	Price	Close		Price	Close	
	Length	8		Length	2	
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	Input/Setting Name	Value	<u></u>	Input/Setting Name	Value	
	Price	Close		Price	Close	
	Length	8		Length	34	
	Displace	0		Displace	0	
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	Load additional data	200		Load additional data	200	
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<b>V</b> (F)	Mov Avg Exponential	<ul> <li>AvgExp</li> </ul>		<ul> <li>Close</li> </ul>		

E	🔑 Mov Avg Exponential	▼ AvgExp	•	<= ▼	💬 Close		X
	Input/Setting Name	Value					
	Price	Close					
	Length	8					
	Displace	0					
	Interval	Daily	•				
	Max # bars to reference	Auto-detect	•				
	Load additional data	200					
	Currency based on	Account	•				
	Sort key	<none> 💌</none>			Sort key	<none> 💌</none>	
	🔣 Ignore this scan criter	ion for symbols th	hat d	do not have a	valid value		
☑ 🗆	🔑 w2jc-pb buy detect&plot	▼ Alert	•	True 🔻			$\mathbf{X}$

All of the above create filters for the relationships between the various moving averages, as specified by the Hit&RunCandlesticks criteria. Note that ALL criteria require the "Load additional data" to be set for 200.

🔑 w2jc-pb buy detect&plot	💌 Alert 🛛 💌	True 🔻		
Input/Setting Name	Value			
TLine	8			
UprBuyMA	13			
TXT	"Pinball buy"			
ProfitSpreadPct	10			
PriceH	Close			
PriceL	Close			
FillWidth_1to6	5			
BandColor	darkmagenta			
Interval	Daily 🔻			
Max # bars to reference	Auto-detect 🔹 💌			
Load additional data	200			
Currency based on	Account 🔹			
Sort key	<none> 💌</none>			
🗾 Ignore this scan crite	erion for symbols that d	o not have a	a valid value	
<select criteria=""></select>	<b>•</b>			

The last set of settings control the EZ-Language logic which is the "heart" of the **Pinball setup finder by w2jc.** Generally, these should not be changed; however, there are a couple of settings that can be "user selected." (Some of the settings shown in the list do not relate to the scanner; they are used when the same EZ-Language code is used as an indicator on charts.)

#### User Adjustable Settings

The only settings we recommend the user change, if any, are those shown on this page.

0	TLine	8 (ema)	do not change.
0	UpBuyMA	this is the uppe	er buy limit price during Pinball
		it is set for 13e	ma, but could be changed to 11ema
0	ТХТ	not applicable	to scanner
0	ProfitSpreadPct	default is 10%.	This is the percent gain available
		from the TLine	to the 34ema; if too many hits found
		by the scan, in	crease to 15, if too few hits, lower it.
0	PriceH	not applicable	to scanner
0	PriceL	not applicable	to scanner
0	FillWidth_1to6	not applicable	to scanner
0	BandColor	not applicable	to scanner
0	Interval	leave at Daily	
0	Max # bars to reference	leave at Auto-o	letect
0	Load additional data	must be set at	200
0	Currency based on	leave at Accou	nt
0	Sort key	leave at <nine></nine>	>

These settings will be reviewed again in the section covering the use of this EZ-Language code as a chart indicator.

#### Other scanning settings and operation

It is beyond the scope of this document to cover standard Tradestation procedures.

However, much tutorial information is available from Tradestation regarding the built-in features of the Tradestation Scanner utility. Some references are shown below for your convenience.

By clicking the Help button on the top line of the Tradestation window, and searching for "scanner" a number of useful instructions are found:

Hide Back Forward Print Optic	
ontents Index Search Favorites	
Type in the word(s) to search for:	
scanner	
Select <u>t</u> opic:	
Title	Location
Understanding the Scanner Window	Trade Station Help
chactorality the ocalities million	The obtail of the p
Inserting, Renaming or Deleting a Scan Folde	
	er Trade Station Help Trade Station Help
Inserting, Renaming or Deleting a Scan Folde	er TradeStationHelp
Inserting, Renaming or Deleting a Scan Folde Inserting a New Scan	er Trade Station Help Trade Station Help
Inserting, Renaming or Deleting a Scan Fold Inserting a New Scan Formatting a Scan	er Trade Station Help Trade Station Help Trade Station Help Trade Station Help
Inserting, Renaming or Deleting a Scan Fold Inserting a New Scan Formatting a Scan Setting the Scanner Preferences	er Trade Station Help Trade Station Help Trade Station Help Trade Station Help Trade Station Help
Inserting, Renaming or Deleting a Scan Folde Inserting a New Scan Formatting a Scan Setting the Scanner Preferences Formatting the Scanner Window Printing Windows and Documents Inserting TradeStation Sample Scans	er Trade Station Help Trade Station Help
Inserting, Renaming or Deleting a Scan Folde Inserting a New Scan Formatting a Scan Setting the Scanner Preferences Formatting the Scanner Window Printing Windows and Documents	er Trade Station Help Trade Station Help
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Inserting, Renaming or Deleting a Scan Folde Inserting a New Scan Formatting a Scan Setting the Scanner Preferences Formatting the Scanner Window Printing Windows and Documents Inserting TradeStation Sample Scans Inserting / Removing Columns in the Scan P	er Trade Station Help Trade Station Help ane Trade Station Help
Inserting, Renaming or Deleting a Scan Folde Inserting a New Scan Formatting a Scan Setting the Scanner Preferences Formatting the Scanner Window Printing Windows and Documents Inserting TradeStation Sample Scans Inserting / Removing Columns in the Scan P- Renaming or Deleting a Scan	er Trade Station Help Trade Station Help
Inserting, Renaming or Deleting a Scan Folde Inserting a New Scan Formatting a Scan Setting the Scanner Preferences Formatting the Scanner Window Printing Windows and Documents Inserting TradeStation Sample Scans Inserting / Removing Columns in the Scan P Renaming or Deleting a Scan Scanner Shortcut Options	er Trade Station Help Trade Station Help
Inserting, Renaming or Deleting a Scan Folde Inserting a New Scan Formatting a Scan Setting the Scanner Preferences Formatting the Scanner Window Printing Windows and Documents Inserting TradeStation Sample Scans Inserting / Removing Columns in the Scan P Renaming or Deleting a Scan Scanner Shortcut Options Command Line Reference (All Commands)	er Trade Station Help Trade Station Help

On-line, you can view the following tutorial at https://www.tradestation.com/support/webinars/default.aspx



Also on-line, at

https://www.tradestation.com/support/webinars/archives/screen\_size.asp?id=Scanner\_RadarScreen\_and\_Hot\_ Lists Integration

#### Scanner, RadarScreen and Hot Lists Integration

TradeStation Scanner, Hot Lists and RadarScreen provide a variety of ways to search, sort and monitor lists of symbols. Scanner for broad market scans on fundamental and technical data, RadarScreen for real-time technical analysis in a tabular format, and Hot Lists for quick and automatic scans all complement each other in helping you find and monitor trading opportunities. This online seminar will focus on integrating the features of these three tools for quick and efficient analysis and trading.

Some additional links are shown below:

http://www.tradestation.com/strategy\_testing/st\_scanner.shtm

# **Finding Pinball Conditions on TradeStation charts**

Version 1.02 and later of the EZ-Language code for **W2JC-PB BUY DETECT&PLOT ###### 1-02.ELD** has been enhanced to allow the same code module to be used as a "chart indicator" as well as the scanner.

The code detects "Pinball Buy" conditions and overlays a wide, vertical bar on the candle meeting the required conditions. The price range <u>inside</u> this indicator bar is the "buy range" recommended by Rick Saddler, the creator of the Pinball Play. Below is an example chart showing two occurrences meeting the Pinball criteria.



The three yellow, vertical bars indicate the three candles during which the Pinball Buy conditions were present. Notice that there are two candles between, where the first Pinball "failed" and later the conditions were again met, creating a new Pinball Buy signal. The bottom of the yellow vertical bar is always at the T-Line (8ema); the top of the vertical bar is user-adjustable, but by default is at the 13ema.

Note: this chart also has an example of "Bracket Order" suitable for this pinball setup. The blue L:1000 is at the top of the vertical bar; a "target sell" order is placed just under the orange 34ema and a "stop market" order is placed below the previous candle's low (placement of the stop price is based on the user's money management and risk tolerance).

An "alert" is included in the coding of this indicator. If the current bar of the chart meets the Pinball Buy criteria, the alert will be triggered. Depending on user settings, the alert can be a pop-up and/or an audible (voice) announcement. Special code has been included so that the alert identifies the ticker symbol. An example alert would be: "XXXX is now in Pinball Buy area."

The vertical bar overlays remain on past candles/bars of the chart, so that it is easy to view a chart and see when in the past the pinball setup has occurred. This is particularly useful to see if previous Pinball setups have been prone to fail, or succeed.



An additional feature of this indicator is that when the "data box" is displayed for a certain bar/candle, the Pinball Buy Range values are displayed in the chart, making it very easy to determine where you should place your buy order.



Here are some example charts, showing previous Pinball Buy conditions -- both failed and successful.











# Installing the W2JC-PB BUY DETECT&PLOT Indicator on a chart

If you installed the **W2JC-PB BUY DETECT&PLOT ###### 1-02.ELD** previously, then you already have the code for this indicator installed and ready to select. It is added the to TradeStation chart the same way any other indicator is added to the chart.

- In the chart area of the chart window, right-click and from the menu window select "Insert Analysis Technique"
- In the "Insert Analysis Techniques" window, be sure the "Indicator" tab is selected.
- Scroll down the list of Indicators and find the entry for
- w2jc-pb buy detect&plot ###### 1-02 [###### should be your Customer ID; 1-02 is version]
- Left-click once to select the indicator name.
- Be sure the box at left of "Prompt for Format" has a checkmark in it.

sert Analysis Techniques			<b>—</b> ×
Indicator ShowMe PaintBar ActivityBar Probabili	tyMap		
Name	Status	Alert	•
w2jc_vol_spike_flag	Ready		
w2jc-pb buy detect	Ready		
w2jc-pb buy detect&plot	Ready		
₩ w2jc-pb buy detect&plot 791079 1-02	Ready		
w2jc-Pinball buy now	Ready	✓	
w2jc-pinball buyzone	Ready		
w2jc-Pinball-2	Ready		
w2jc-pinball-2b	Ready		
w2jc-pinball-3c	Ready		
w2jc-Pinball-3c-791079	Ready		
w2jc-pinball-3cx	Ready		
w2jc-pinball-3cxx	Ready		
w2jc-pinball-3d	Ready		
w2jc-pinball-3x	Ready		
w2jc-pinball-3z	Ready		
w2jc-pinball-buyzone	Ready		
w2jc-RSI	Ready		
Weighted Close	Ready		
Woodie Pivots	Ready		Ξ
	Ready - ·		-
Definition Edit EasyLanguage		Prompt fo	r Format
Titles and definitions are intended to give a general idea tool. No particular security, group of securities, industry approach, strategy or setting is being recommended to by TradeStation Securities or any of its affiliates. You ar of the trading approach or strategy that you design or us	segment, analysis interval, idea you or in a ny manner endorsed e solely re, ponsible for the res	a. İ	
	ОК	Cancel	Help

- Left-click the **[OK]** button to continue.
- The "Format Indicator" window should appear; select the "Scaling" tab.

[Settings in this tab are very important to proper operation of the indicator.]

General Inputs Alerts Style Color Scaling Advanced
Axis:
Scale Type: © Linear © Semi-log
Scale Range: Automatic: Scale Range Based on: Date Range on Screen     Sub-graph Margins: Lower: 5.0000 % Upper: 5.0000 %
Sub-graph Margins.         Lower.         Jourday         Opper.         5.0000         %           Fixed:         Min:         8.0965         Max:         14.3943         14.3943
Movement Size:         1.0000         Inch(s)         =         5.0000         Points           Display:
Custom Decimal Places: 2 decimals
Use 1000's separator (.)

This setting is very important, as it puts the indicator in the top section of the chart and associates it with the candles.

- In the Axis: / Scale On: drop-down menu, select "Same Axis as Underlying Data" (everything else on the menu should become greyed-out).
- The **Color**, **Style** and **General** tabs are not relevant to this indicator.

Click on the Alerts tab and, in the menu, select:

- Enable Alert
- Alert once per bar
- Use global messaging preferences
- Click the [Configure] button to set Notification Preferences
  - Select Audible
  - Select "Voice (text to speech) [so the alert message is read to you!]
  - Select Visual
  - Select Pop-up window (use Configure if you don't want 15 seconds)
  - Click [OK] button to return to the Alert tab menu

General Inputs Alerts Style Color Scaling Advanced							
Enable Nert							
When a ert condition is true:							
Alert once							
<ul> <li>Alert once per bar (interval)</li> </ul>							
Clear triggered alert on bar close							
<ul> <li>Alert continuously</li> <li>Use the following Message Center notification settings:</li> </ul>							
<ul> <li>None (for use when scanning for alerts in RadarScreen)</li> </ul>							
Use custom settings: Configure							
Type Current setting							
Audio Voice							
Visual Show pop-up window for 15 seconds							
< >							
Natification Defenses							
Notification Preferences							
V Audible							
П Веер							
Sound ahooga   Configure Play							
Orden A Calloga     O							
Voice (text to speech)							
Visual							
Pop-up window: 15 seconds Configure							
Flash icon in system tray							
C Francisco Fill System (Gy							
Email							
Send a text alert to an email address Configure							
Jul							
OK Cancel Help							

• Click on the Inputs tab

General Inputs	Alerts	Style	Color	Scaling	Advanced	
Name			V	alue		
TLine			8			
UprBuyMA			13	}		
TXT			"F	"Pinball buy"		
Profit Spread Pct			1(	)		
PriceH			C	ose		
PriceL			C	ose		
FillWidth_1to6			5			
BandColor			ye	llow		

The table above shows the default settings for this indicator.

### **User Adjustable Settings**

The only settings we recommend the user change, if any, are those shown on this page.

0	TLine	8 (ema)	do not change.		
0	UpBuyMA	this is the upper buy limit price during Pinball			
		it is set for 13ema, but could be changed to 11ema			
0	ТХТ	this is the 'title'	that shows in the data box.		
0	ProfitSpreadPct	default is 10%. This is the percent gain available			
		from the TLine to the 34ema; if too many hits found			
		by the scan, increase to 15, if too few hits, lower it.			
0	PriceH	not applicable;	do not change.		
0	PriceL	not applicable;	do not change.		
0	FillWidth_1to6	this sets the thi	ickness of the vertical overlay bar.		
0	BandColor	this sets the co	lor of the vertical overlay bar.		

When the Inputs are set as desired, click the **[OK]** button at bottom of **"Format Indicator**" window.

The **Pinball Buy Area** indicator should now be installed on the chart.

If you do not see any yellow vertical bars on the current daily chart, return to the Scanner workspace and run the **Pinball setup finder by w2jc** to find tickers that are currently Pinball Buy candidates.

When you open a chart from the Scan Results list, if everything is working correctly, you should see a pop-up alert window



and you should hear the lower line spoken audibly: " R O I A K [pause] is now in Pinball Buy area"

You are now prepared to scan and find Pinball setups, and then to place your Bracket Orders and then follow the progress on the chart!

# **Ordering Information**

The **Pinball setup finder by w2jc** is a proprietary software package developed by Jim Cooper, w2jc. (w2jc is my Amateur Radio Extra Class call letters!)

This package is applicable only with the Tradestation charting program, Version 8.7 or later. Because there is no "registration" procedure for this package, it is internally coded with your Tradestation "Customer ID" number. To find your ID number, while Tradestation is running click Help / About Tradestation and you will see the Customer Number listed near the bottom:

About TradeStat	ion 8.8	x			
Trade Station	TradeStation 8.8 Version: 8.8 (Update 6013) Date: 07/19/2010 Installed Windows:				
TradeS	Browser Version: 9.30.03.6013 Date: 07/19/2010				
ē	Research Version: 9.30.03.6013 Date: 07/19/2010	Ŧ			
	Licensed To:				
onnect	Customer Number: Customer Number: Network ID: 430237 Block Number: 0				
Warning: This computer program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.					

The **Pinball setup finder by w2jc** package can be purchased for only \$150 from the following link:

http://jimcooper.biz/stockcharts/index.html#pinball

### PLEASE NOTE:

When ordering from the website, when you get to the PayPal order form page please look carefully for the link "Enter Tradestation Customer ID here" and click the link to open the text window, into which you can type your ID number. This is important because if we don't get that info with order, it will delay while we contact you for the info before creating your software package.

All future updates are included in the one-time fee for this scanner/indicator package.

Note: TradeStation and EZ-Language are trademarks of TradeStation Securities, Inc.