# **COBRA Reprogramming Instructions**

The purpose of this document is to provide instructions on how to setup and use the COBRA reprogrammer to update the software on your COBRA firing system.

It's a little tricky, but if you follow each step, one-by-one, you'll be a reprogramming wizard by the end of the document! Also, if you get stuck, you can contact us at <u>help@cobrafiringsystems.com or</u> call Scott Smith at 518 741-43000. We are here to support you.

## How it works

The wireless reprogrammer is a small device that connects to your PC via USB. You can use this device with a software program called Portal to upload the latest COBRA software to both the remote, firing modules, and audio box. The entire process is done wirelessly without opening the system enclosures.

# **Required hardware**

You will need the following hardware:

- 1 PC running either XP, Vista or Windows 7
- 1 COBRA Wireless Reprogrammer
- 1 standard USB thumb flash drive (if you don't own one, we suggest buying the Sandisk brand at Walmart)

# **Table of Contents**

Please find a quick table of contents:

Page 1: Initial Software SetupPage 4: Update the 18R or 18R2Page 10: Update the 18MPage 14: Update the Audio Box

# Initial Software Setup

This step explains how to install Portal, which is used in the reprogramming process. You only need to perform the initial software setup once.

### Step 1

Download and install the Portal software by going to <u>http://www.cobrafiringsystems.com/portal and clicking on</u> <u>Download Portal</u> from the Software Versions section on the right.

When installing, please note the following:

- When prompted with a series of options with checkboxes, make sure all are selected
- When prompted that the software may not pass a Windows Logo test, click Continue Anyway
- Disconnect the wireless reprogrammer from the PC before installing Portal
- Once installed, no need to launch Portal immediately, this will be done later

#### Step 2

If the Portal software automatically started from Step 1, please close the software. Download the utilities zip file from here: <u>http://www.cobrafiringsystems.com/release/utilities.zip</u> and extract the contents of the zip file to the My Documents > Portal > snappyImages directory. In Windows 7, the directory is in Libraries > Documents > Portal > snappyImages. <u>Do not</u> save the files into the c:\Program Files\Portal\snappyImages directory. Also, make sure the extracted files are not in a separate directory. Instead, the files should display within the snappyImages directory.

#### Step 3

Connect the SNAP wireless reprogrammer to a USB port on your PC. In the lower-right corner of your PC, you may see the device as recognized and installing. If you don't see the device install, that is OK. You are done the initial software setup step.

# Upload firmware to your 18R, 18R2, 18M and Audio Box

Now that the initial setup is performed, you are ready to upload the latest COBRA firmware to your devices including the 18R, 18R2, 18M, and Audio Box.

Important!: Please update all devices using the following steps in the exact specified order.

**Step 1: Download latest COBRA firmware release version** - Go to <u>http://www.cobrafiringsystems.com/release</u> and click on the desired version download zip file. Extract all files to the My Documents > Portal > snappyImages directory. In Windows 7, this directory is in Libraries > Documents > Portal > snappyImages. Same as within the initial software setup, do not save the files into the c:\Program Files\Portal\snappyImages directory. Also, make sure the extracted files are not in a separate directory. Instead, the files should display within the snappyImages directory.

Step 2: Connect the SNAP wireless reprogrammer to the PC - Plug the SNAP STICK re-programmer into your PC.

**Step 3: Launch Portal and connect to reprogrammer** - Launch the Portal program. You will likely have a desktop icon automatically added during the install process. Once launched, a **Connect to Port** window will appear (see below). Your PC should recognize the device on a specific COM port. Once recognized, a COM# or "SNAP STICK" followed by a number will display. click **Connect**. If the device is not recognized, please re-boot your PC and try again. If still unrecognized, please email ssmith@cobrafiringsystems.com.

Connect to	Port		
Port:	COM8	i i i i i i i i i i i i i i i i i i i	•
Progress:	Found SNAP Bridge Device	on Port COM8	
	Connect	Cancel	

#### Step 4: Update the 18R or 18R2 firmware

Having fun yet? Brace yourself - this is the hardest part.

We will begin with updating your 18R or 18R2. For the 18R, you need to only update the radio transceiver using Portal. The 18R2 has a radio transceiver and an extra processor. Therefore, 18R2 has the step of updating the extra processor not within the 18R. If you have multiple 18Rs or 18R2s, please repeat this step for each device.

a) Power on your 18R or 18R2. Make sure no other units are powered on, only the 18R or 18R2 you are updating.

**b)** ONLY If your 18R or 18R2 firmware is 3.0.2 or greater, you need to place the device in "program" mode. If your running 3.0.1 or earlier, please skip this step. Press and hold the SYNC button once the unit is fully powered on, and the channel is displaying. Once "P" displays, release the SYNC button. If you are unsure of your 18R or 18R2 firmware, power the unit off and on. The firmware is displayed as three numbers X.Y.Z where the channel normally displays. For example, 2.1.1, 3.0.1, etc... Higher numbers represent newer versions.

#### c) From Portal, click Network > Find Nodes.

💷 Synapse Portal: default.swn						
File View Options	Network Help		-			
De 🖬 🖷 🖉 🦻	Broadcast PING	1				
	Find Nodes 🛛 🖌					
Event Log X	Generate Topology .DOT File	_				
Time	Change Portal Address	Туре	¥alue			
2011-11-21 17:08:56		<ul> <li>bcuments an</li> </ul>	d Settings\SSmith Admin\My Docume			
2011-11-21 17:08:57	New Configuration					
	Open Configuration					
	Save Configuration As					
	Launch SNAP Sniffer					

d) Select Channel 4 and click Scan. Two results should appear. If two results don't appear, re-click scan a few more times until they do. In some cases, this can take 5+ tries.

e) From the **Node Finder** window results, write down the **Network ID** of the 18R or 18R2. You can compare the network address of the SNAP Stick from the Node Views tab to the Find Nodes search results to determine which unit is your 18R or 18R2. Write down the Network ID of the 18R or 18R2 you are updating. See below for help.

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File View Option	File View Options Network Help								
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Node	Network A	ddr Device In	nage Link	Qua Device 1	[ype				
2 Portal	00.00.01			Portal		Click X to	close N	lode Finder	
SnapStick	05.26.BA	SnapStick	c 5%	None		window.			Firmware V
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	<b>1</b>					Node	Finder		
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			N	letwork Address	Channel	Network ID	LQ	Device Image	L
				C0.00.A9	4	0x2500			
				5.26.BA	4	Ux0000	- F	bia ia your 10D a	vr 10D0
Event Log X								ecause the Netw	vork Address
Time	Event	Device	Ту				is	different.	
2014-04-30 08:40:52	STATUS	SnapStick	INFO					Vrite down the N	etwork ID. For
2014-04-30 08:40:52	QUERY	SnapStick	Version				e	xample, in this c	ase 0x2500.
2014-04-30 08:40:52	NV PARAM	SnapStick	Image				L	• •	
2014-04-30 08:40:52	QUERY	SnapStick	Channe						
2014-04-30 08:40:52	QUERY	SnapStick	Networ						
2014-04-30 08:40:52	NV PARAM	SnapStick	MAC A						
2014-04-30 08:40:52	QUERY	SnapStick	SNAPp						
2014-04-30 08:40:52	NV PARAM	SpanStick	Device Typ	e None					

f) Close the Node Finder window.

**g)** From the **Node Views** tab, double left-click the row that says **Snap Stick**. You may see nothing happen after clicking, however the **Node Info** tab is now displaying the Snap Stick.

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File View Option	is Network Hel	lp				
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Node Views ×	Node Views ×					
	💈 🥥   🔢   Acti	Double left-click	this row.			
Node	Network Addr	Device Image	Link Qua	Device Type		
Portal	00.00.01			Portal		
SnapStick	05.26.BA	SnapStick	5%	None		

h) Click the small gear icon from the Node Info tab. See below.

( <b>c</b> a)	Synapse Portal: default.swn								
File View Opt	ions Network Hel	р							
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Node Views >	Node Views X								
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SnapStick	05.26.BA	SnapStick	5%	None	0110	k hara	platform	01: 2.4.34 WITH AES-120	⊟ SNA
					Cild	ж nere	Platform:	55200	·····[+]·····
							Network Addres	s: 05.26.BA	
							MAC Address:	00:1C:2C:1A:76:05:26:E	A
							Device Image:	<u>SnapStick</u>	

i) From **Network** tab, replace the current **Network ID** with the value you wrote down in step e) earlier. For example, 0x2500. If you just bought the reprogrammer, you will replace the word "None" with the Network ID.

j) Check the Reboot After Apply box. Then, click OK.

SnapStick3 - Configuration Parameters				
Network Device M	ulti-cast UART Mesh Security			
Network ID	0x05DC			
Channel	4			
Radio Unicast Retries	8			
Radio LQ Threshold	127			
ОК	Cancel Refresh Reboot After Apply			
1				
2. C	lick OK 1. Check here			

k) Close the Configuration Parameters window.

I) From the Network menu, select New Configuration. This will refresh the Node Views tab.



**m)** From the **Node Views** tab, you should see three rows including **Portal**, **SnapStick**, and a third row with a device image such as CFS18WiR or CFS18WiR\_V2\_RF200. If you see something different in the **Device Image** column, this is OK. As long as your 18R or 18R2 is the only device powered on, this is normal.

Note: If you don't see a third row, close and restart Portal and repeat step k). Also make sure your 18R or 18R2 still displays "P" if the firmware version is 3.0.2 or greater.

**n)** Double left-click on this third row (ie. CFS18WiR or CFS18WiR\_V2\_RF200) that is <u>not</u> Portal or SnapStick. You may see nothing happen after clicking, however the **Node Info** tab is now displaying the 18R or 18R2.

Important! DO NOT double left-click on the SnapStick as you may end up reprogramming the reprogrammer which may damage the unit.

Node Views ×				
	🖁 🥥  🏭 🛛 Activ	e Nodes 🛛 🗸		
Node	Network Addr	Device Image L	Double I	left-click here
Portal	00.00.01			Portai
SnapStick	05.26.BA	SnapStick 8	0%	None
@ CFS 18R ZIC24	C0.00.A9	CFS18WiR -8	8%	None

**o)** From the **Node Info** tab, click the green up arrow icon (see step **o)** below). The **SNAPpy Image** window will appear.

**p)** From the **SNAPpy Image** window, left click the the appropriate software file. For example, if you're upgrading the 18R2 to 3.0.3, select 18R2-3.0.3.spy. The naming convention is the device (ie. 18R or 18R2) followed by a dash and the version number and the .spy file extension. For example, the 18R2 on 3.0.3 is 18R2-3.0.3.spy.

			Synapse Portal: default.swn		
File View Option	ns Network	Help			
	0	📃 🎫 🛃 🔳	1. Click	k on green up v icon here.	
Node Views ×					Node Info ×
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Node	Network Ad	ddr Device Ima	ge Link Qua	Device Type	CES 188 71C2410
a Portal	00.00.01			Portal	
SnapStick	05.26.BA	SnapStick	80%	None	Firmware Version: 2.4.10
CFS_18R_ZIC2	C0.00.A9	CFS_18R_Z	IC 93%	None	Platform:
2. Select the appropriate software file.					This operation is service affecting.
	oursev.		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		atmcast.py
2014-04-30 09:10:06		CFS_18R_ZIC2410	version	2.4.10,(Jul 14 2010	BatteryMonitor.py
2014-04-30 09:10:06	OUERY	CFS_18R_ZIC2410	4 3 Clic	KOK	buzzer.py V
2014-04-30 09:10:06	OUERY	CFS 18R ZIC2410	3.010		
2014-04-30 09:10:06	NV PARAM	CFS 18R ZIC2410	MAC Address	00:1C:2C:00:00:C	0: OK Cancel Preview
2014-04-30 09:10:06	QUERY	CFS 18R ZIC2410	SNAPpy Space	19968	
				-	

q) Click OK. A green progress bar will progress from left to right.

**Note:** Once complete, you may see a red error in the **Event Log** noting the node cannot be detected. The Firmware Version may also say "out of date". Both of these errors are normal.

**Note:** Once updated, the 18R2 is **not recognizable** by Synapse Portal unless you proceed to the next steps. Please don't attempt to re-perform this step, simply proceed to the next steps below.

None	Firmware Version: 2.	.4.10
None	Platform:	
	CFS_18R_ZIC2410 - SNAPpy U ×	1C:2C:00
	Uploading CFS18WiR:	<u>5 18R ZI</u> 32A8 (No
		manent
	Elapsed time : 0:00:08	2500

**r)** Once finished, if you updated the 18R, the 18R will restart. If you updated the 18R2, the 18R2 won't restart. This is normal.

s) If you updated the 18R, you are done!

t) If you updated the 18R2, save the **cobra.s19** file to a standard USB thumb drive. The cobra.s19 file was downloaded in Step 1) from <a href="http://www.cobrafiringsystems.com/release">http://www.cobrafiringsystems.com/release</a> in the firmware release zip file. Make sure the cobra.s19 file is not saved into a directory on the USB thumb drive.

**Note:** It is OK to have both the cobra.s19 and audiobox.s19 files saved to the USB thumb drive along with any other files. You don't need to remove all files from the thumb drive.

u) Power off the 18R2 and insert the USB thumb drive into USB port on the side of the 18R2.

v) Hold the SYNC button on the 18R2 and power on the 18R2 at the same time you are holding this button. You should see red LEDS circle around the display. You can release the SYNC button at this time. After about 15 seconds, the 18R2 will display all green LEDs and then power off.

**Note:** If you see all red LEDs instead of circling red LEDs when first powering on the 18R2, your USB thumb drive is not compatible with the 18R2. We suggest purchasing the Sandisk brand at Wal-mart. Purchase the cheapest one available with the lowest number of GB.

w) Remove the USB thumb drive, and restart the 18R2. You will see the new version display correctly. You are done!

#### Step 5: Update the 18M firmware

Congrats! If you successfully made it this far, you are still alive, kicking, and are well on your way. Consider yourself a reprogramming wizard.

The 18M only has a radio transceiver and therefore only requires one step vs. two. We suggest repeating the following steps for each 18M.

**a)** Power on the 18M by placing the key in the TEST or ARM position. Make sure <u>only</u> a single 18M is on. Power off all other devices.

**ONLY If your 18M firmware is 3.0.2 or greater**, you need to place the device in "program" mode. If your running 3.0.1 or earlier, please skip this step. Press and hold the SYNC button once the unit is fully powered on, and the channel is displaying. Once "P" displays, release the SYNC button. If you are unsure of your 18M firmware, power the unit off and on. The firmware is displayed as three numbers X.Y.Z where the channel normally displays. For example, 2.1.1, 3.0.1, etc... Higher numbers represent newer versions.

#### b) From the Network menu, select Find Nodes.



c) From the Node Finder window, select **Channel 4**. Then, click **Scan**. Two results should appear. If two results don't appear, re-click scan a few more times until they do. In some cases, this can take 5+ tries.

d) Once two rows appear, hold down the <ctrl> button and left-click on both rows to highlight both. Once highlighted, click **Move to my Network**.

	1	Node Finder	- 🗆 ×			
Channel: 4 🗸	All Channels	Specific Address:	Scan			
Move to my Network	Query for LC	2. Olick Move to my blob				
Network Address C0.00.A9 05.26.BA	Channel         N           4         0           4         0x25					
1. Left click on both rows while holding the <ctrl> button to highlight both rows.</ctrl>						

e) You will receive a success message. Click OK. Then, close the Node Finder window.

f) From the **Network** menu, click **New Configuration**. The Node Views tab will refresh and you should see three rows including **Portal**, **SnapStick**, and a third row with a device image such as CFS18WiB. If you see something different in the **Device Image** column, this is OK. As long as your 18M is the only device powered on, this is normal.

**Note:** If you don't see a third row, press and hold the SYNC button on the 18M for about 3 seconds. If the row still does not appear, close and restart Portal and repeat step **f**). Also make sure your 18M still displays "P" if the firmware version is 3.0.2 or greater.

**g)** Double left-click on the third row (ie. CFS18WiB) that is <u>not</u> Portal or SnapStick. You may see nothing happen after clicking, however the **Node Info** tab is now displaying the 18M.

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File View Option	ns Network Hel	р				
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Node Views X					No	
	💈 👰  🏭 🗛 Activ	/e Nodes	~	Click here	Ĵ.	
Node	Network Addr	Device Image	Link Qua.	bence type	_	
Portal	00.00.01			Portal		
CFS18WiB_V2	00.06.C3	CFS18WiB_V2	62%	None		
SnapStick	05.26.BA	SnapStick	6%	None	(0)	

Important! DO NOT double left-click on the SnapStick as you may end up reprogramming the reprogrammer which may damage the unit.

h) From the Node Info tab, click the green up arrow icon (see step i) below). The SNAPpy Image window will appear.

**i)** From the **SNAPpy Image** window, left click the the appropriate software file. For example, if you're upgrading the 18M to 3.0.3, select 18M-3.0.3.spy. The naming convention is the device (ie. 18M) followed by a dash and the version number and the .spy file extension. For example, the 18M on 3.0.3 is 18M-3.0.3.spy.

				Node Info X
Activ	ve Nodes	1. Click or	green up arrow	🔊 🔍 🕞 🖓 🔓 🖉 🔅 🔶 🏠 🗐 💷 🗙 🦻
dr	Device Imag	e	on here.	Node
			Portal	Firmware Version: 2.4.10
	CFS18WiB_V	2 58%	None	Platform:
	SnapStick	7%	None	Network Address: 00.06.C3
				Node - SNAPpy Image
_	2. Select th softw	e appropriate vare file.	,	Please select the SNAPpy image you would like to upload. This operation is service affecting.          18M-3.0.spy         18M302.spy         18R-2.1.spy         18R-2.1.spy         18R2-2.1.spy         18R2-3.0.spy         18R2302.spy         18R2302.spy         18R2302.spy         18R2505         18R2302.spy
_	Device	Туре		AB-3.0.spy
SnapS	tick	SNAPpy Space	61695	atFlasher.py
SnapS	tick [	Device Type	None	Audiobox302.spy
Vode	1	INEO.	CFS18WiB_V2,	BatteryMonitor.py
Vode Vode	Vode 3. Click OK.		.4.10,(Jul 14:	CFS18WiB_V2.py
Vode			0:1C:2C:00:0	OK Capcel Preview
Vode		SNAPpy Space	19968	
Vode		Device Type	None	

**j)** Click **OK**. A green progress bar will progress from left to right. Once complete, you may see an error in the Event Log noting the node cannot be detected. The Firmware Version may also say "out of date". Both of these errors are normal.

Note: If this process times-out, or the is somehow cancelled mid-process, see the section "Help! My device is dead" at the end of this document to help recover the unit.

**k)** Once finished, the 18M will restart automatically and display the new software version. You are done! Repeat this process for each 18M.

Important! Once updated, you may be required to re-sync your 18M to the 18R or 18R2.

#### Step 6: Update Audio Box firmware

The Audio Box firmware update process is nearly identical to the 18R2 process since it has both a radio transceiver and processor. There are two steps required including Portal and a standard USB thumb drive.

a) Power on your Audio Box. Make sure no other units are powered on, <u>only</u> the Audio Box you are updating.

**b) ONLY If your Audio Box firmware is 3.0.2 or greater**, you need to place the device in "program" mode. If your running 3.0.1 or earlier, please skip this step. Press and hold the SYNC button for about 3 seconds after powered on. The SYNC LED will display solid even after the SYNC button is released. If the SYNC LED is still lit without holding the button, it is in "program" mode.

c) From Portal, click Network > Find Nodes.

🗐 Synapse Porta	l: default.swn			
File View Options	Network Help		-	
De 📄 👘 🖉 🦻	Broadcast PING			
	Find Nodes 🛛 🖊			
Event Log X	Generate Topology .DOT File	-		
Time	Change Portal Address	Туре	Value	
2011-11-21 17:08:56		ocuments and	d Settings\SSmith Admin\My Docume	
2011-11-21 17:08:57	New Configuration			
	Open Configuration			
	Save Configuration As			
	Launch SNAP Sniffer			

**d)** Select **Channel 4** and click **Scan**. Two results should appear. If two results don't appear, re-click scan a few more times until they do. In some cases, this can take 5+ tries.

e) Once two rows appear, hold down the <ctrl> button and left-click on both rows to highlight both. Once highlighted, click **Move to my Network**.



f) You will receive a success message. Click OK. Then, close the Node Finder window.

**g)** From the **Network** menu, click **New Configuration**. The Node Views tab will refresh and you should see three rows including **Portal**, **SnapStick**, and a third row with a device image such as CFS\_AudioBox or CFS\_AB\_ZIC2410. If you see something different in the **Device Image** column, this is OK. As long as your Audio Box is the only device powered on, this is normal.

**Note:** If you don't see a third row, close and restart Portal and repeat step **g**). Also make sure your Audio Box still displays a solid SYNC LED if the firmware version is 3.0.2 or greater.

**h)** Double left-click on this third row (ie. CFS\_AudioBox or CFS\_AB\_ZIC2410) that is <u>not</u> Portal or SnapStick. You may see nothing happen after clicking, however the **Node Info** tab is now displaying the Audio Box.

Important! DO NOT double left-click on the SnapStick as you may end up reprogramming the reprogrammer which may damage the unit.

( <b>1</b> )				Syna	pse Portal: default
File View Options	Network Help				
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Node Views ×			c	lick here	e Info 🛛 🗙
	🔗 🛛 🏭 🛛 Active Ne	odes 🗸			🗢 🖉 🖪 🖪
Node	Network Addr	Device Image	Link Qua	Device T	SnanSti
Portal	00.00.01			Portal	Gilapoti
CFS_AB_ZIC2410	00.00.9C	CFS_AB_ZIC2410	18%	None	Platform
SnapStick	05.26.BA	SnapStick	27%	None	Network
					MAC Ad
					Device I
			63		Image (

i) From the Node Info tab, click the green up arrow icon (see step j) below). The SNAPpy Image window will appear.

**j)** From the **SNAPpy Image** window, left click the the appropriate software file. For example, if you're upgrading the Audio Box to 3.0.3, select AB-3.0.3.spy. The naming convention is the device (ie. AB) followed by a dash and the version number and the .spy file extension. For example, the AB on 3.0.3 is AB-3.0.3.spy.

					Syna	apse Por	tal: default.	swn	
File View Option	ns Network	Help							
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Node	Netwo	rk Addr Devi	ce	iere.	Device T	CE	S AR	71024	410
🖀 Portal	00.00.0	1			Portal				110
CFS_AB_ZIC2410	00.00.9	C CFS	AB_ZIC2410	18%	None		Firmware	e Version: 2.4.10	
SnapStick	05.26.B	A Snap	Stick	27%	None		Platform	:	_
							Network	Address: 00.00.9	ic
			Calastina	-	This o	peration is	service affectir	ng.	
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**k)** Click **OK**. A green progress bar will progress from left to right. Once complete, you may see an error in the Event Log noting the node cannot be detected. The Firmware Version may also say "out of date". Both of these errors are normal.

Note: If this process times-out, or the is somehow cancelled mid-process, see the section "Help! My device is dead" at the end of this document to help recover the unit.

I) Once finished, the Audio Box won't look like it re-started. This is OK.

**m)** Save the **audiobox.s19** file to a standard USB thumb drive. The audiobox.s19 file was downloaded in Step 1) from <a href="http://www.cobrafiringsystems.com/release">http://www.cobrafiringsystems.com/release</a> in the firmware release zip file. Make sure the audiobox.s19 file is not saved into a directory on the USB thumb drive.

**Note:** It is OK to have both the cobra.s19 and audiobox.s19 files saved to the USB thumb drive along with any other files. You don't need to remove all files from the thumb drive.

n) Power off the Audio Box and insert the USB thumb drive into USB port on the top of the Audio Box.

**o)** Hold the SYNC button on the Audio Box and power on the Audio Box at the same time you are holding the SYNC button. You should see SYNC LED blink quickly. You can release the SYNC button at this time. After about 15 seconds, the SYNC LED will stop blinking.

**Note:** If you don't see the SYNC LED blinking when first powering on the Audio Box, your USB thumb drive is not compatible with the Audio Box. We suggest purchasing the Sandisk brand at Wal-mart. Purchase the cheapest one available with the lowest number of GB.

p) Remove the USB thumb drive, and restart the Audio Box. You are done!

# LAST STEP: DRY RUN YOUR SYSTEMS!

After performing an update, it is critical that you fully dry run your systems. This includes syncing them up, checking continuity, module counts, making sure they run a full script. Make sure you are seeing full operation before proceeding to fire the first show after the upgrade.

Any questions or concerns, please contact Scott Smith at 518-222-7410 or email me at ssmith@cobrafiringsystems.com.

# Help! My device is dead.

If you have a device that won't power on due to a time-out or other issue, it's likely that the firmware was improperly loaded or corrupt. To fix the unit, please follow the following steps.

1) Power on the device even though it looks like it's dead. Make sure the dead device is the only device that is powered on.

2) Start Portal, connect to the SNAP reprogrammer, and click Network > Find Nodes.

3) Select Channel 4, and click Scan. You should see 2 results. Continue this process until 2 results appear. This may take 5+ times.

4) Click on both results while holding the <ctrl> key. This will highlight both rows.

5) Click Move to my Network. Click OK and close the Finder Node window.

6) Click Network > New Configuration. The node should appear as a third row in the Node Views tab. If it does not, restart Portal, connect to the SNAP reprogrammer, then click Network > New Configuration again.

7) If a third row appears, the Device Image column will likely be blank. Double click this row. The Node Info tab will display this device.

8) From the Node Info tab, click the green up arrow and select the appropriate software file. Click OK. Once the update is complete, the unit should re-start.

**Important!** If the dead device was an 18R or 18R2, you need to request a new Net ID from COBRA. Please email <u>ssmith@cobrafiringsystems.com</u> for further information. If the dead device is an Audio Box or 18M, you don't need to request a new Net ID.