



VOICETONE™ Create·XT

PRODUCT MANUAL

ENGLISH VERSION

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



The lightning symbol within a triangle means "Electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.



The exclamation point within a triangle means "Caution!" Please read the information next to all caution signs.

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Introduction

Welcome to VoiceTone Create XT

VoiceTone Create XT was built for the performance-minded singer desiring studio quality effects on stage. In essence, Create XT can be thought of as a professional producer and all of his/her tools, boiled down into one easy-to-use, portable pedal. The effects in VoiceTone Create XT are produced by the very same algorithms used in high-end studio hardware processors and software plug-ins. In terms of audio quality (noise floor, harmonic distortion, and frequency response), Create XT surpasses anything that has come before it, and arguably exceeds even the most stringent "audiophile" standards.

To make your life as easy as possible, Create XT presents a wide pallet of professionally authored sounds, offering singers instant portholes into the secrets behind producing great sounds for many music genres. Where out-of-the-box sounds aren't enough, Create XT provides a powerful tweak control and effect on/off buttons, designed to give you exactly what you need to find the sound you want.

Your audience, band members and sound engineers may be surprised to see a singer taking control over their sound. We think it's about time!

Features:

- o 10 presets each with A and B settings
- o 100 factory effects styles
- o Highest quality reverb with lots of variations
- o Multiple effects blocks to create complex sounds
- o HardTune effect allows auto-tuned sound live
- o Quick and easy tweaking of presets
- o Convenient operation while performing
- o Easy connection between mic and mixer
- o Clean, high quality mic preamp with phantom power for use with condenser mics

About TC-Helicon

At TC-Helicon we truly believe that the voice is the world's most beautiful instrument. We don't mean to degrade other beautiful instruments, but the singing voice is the anthropological source for all things melodic.

You should know there is a dedicated group of engineers, researchers and product specialists based in Victoria BC, Canada, who spend every waking moment of their working lives listening, talking, singing, and interacting with singers and those who have passion for the singing voice.

All this knowledge and experience is used to design products respecting and empowering the modern

vocalist. Our products focus on removing barriers and inspiring creativity in performance. That's why our products range from near-field personal vocal monitors to floor-based vocal multi-effects pedals.

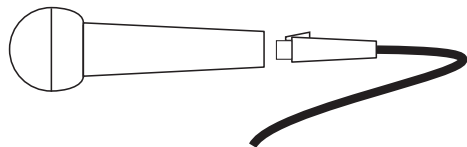
Enjoy!

The TC-Helicon Team
a TC Group company

Quick Start

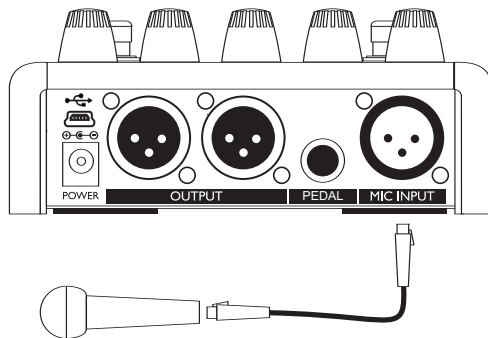
Step 1:

Connect your microphone to a mic cable



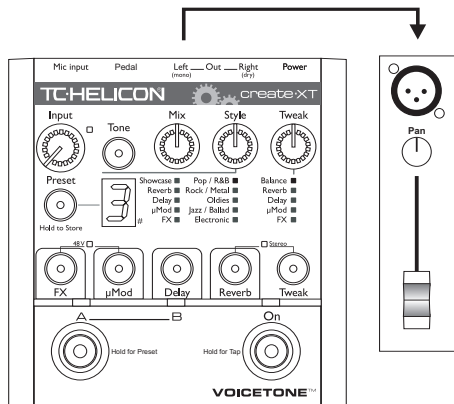
Step 2:

Connect the mic cable to the Mic Input on Create XT.



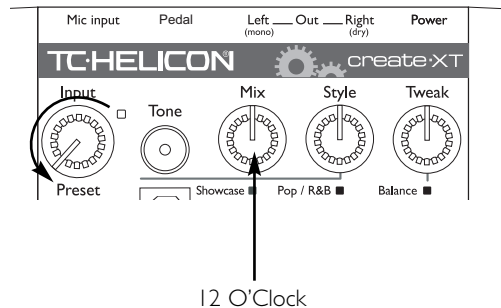
Step 3:

While you're connecting and setting up, lower the fader on your mixer channel to off. Connect a mic cable from the Left/(mono) Out to a mic input on your sound system.



Step 4:

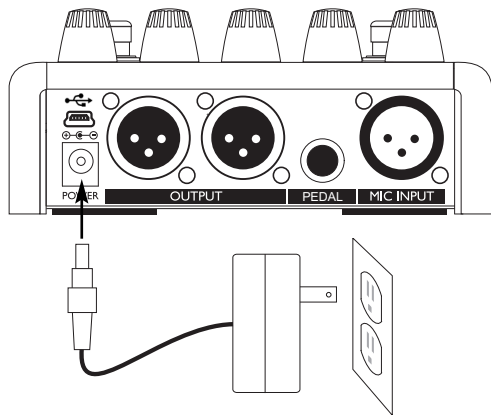
Set the Input control fully left then set Mix to the 12 o'clock detent position. The Style and Tweak knob positions are not important yet.



Quick Start

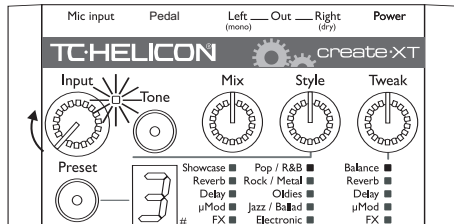
Step 5:

Connect Create XT's power adapter to main power and to the Power Input on Create XT.



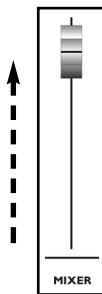
Step 6:

While singing through your microphone, raise the Input control until its LED turns green, sometimes orange on louder parts, but never red.



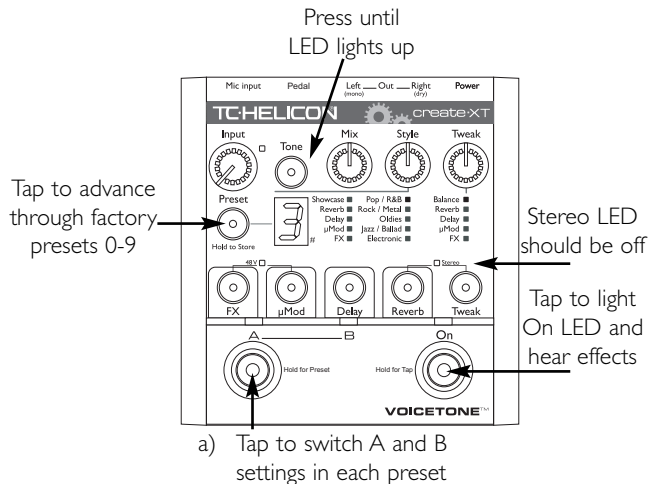
Step 7:

Carefully raise the gain and/or volume on your sound system mic input channel and master volume until you hear a good level from your vocals.

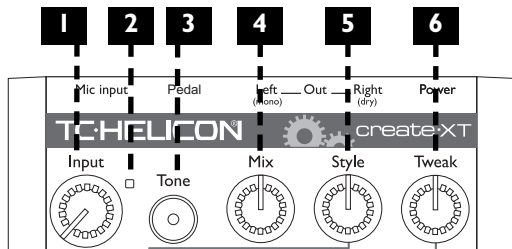


Step 8:

Initial setup and operation is shown below. After setting, singing to hear Create XT's factory effects.



Front Panel Descriptions



1. Input Control

Controls microphone pre-amplifier (input) gain. To set, sing normally and watch the Input Light.

2. Input Light

Indicates input level. Flashing green, sometimes orange is good. Flashing red shows a distorted peak has occurred and input level should be reduced.

3. Tone Button

Engages the Live Engineer Effects which smooth the

sound of your singing even when the main effect is off.

4. Mix Control

Controls the overall balance between your lead voice (including Tone, HardTune and Transducer if active) and the Mod, Reverb and Delay effects. This is a global control meaning that it will affect the sound of all presets. Setting fully clockwise with no effects blocks active will produce no sound.

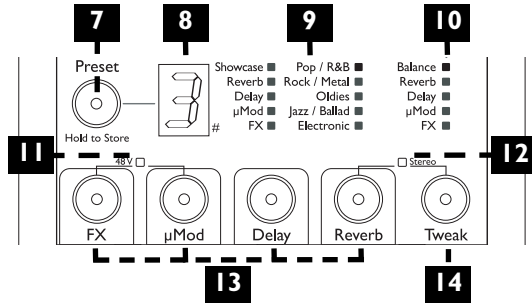
5. Style Selector Control

Selects and loads a preset from one of the 10 style banks. Each bank has 10 style variations available by pressing and holding the Tweak button then tapping to cycle forward through the styles in each bank. Press and hold to exit.

6. Tweak Control

Edits the value of the parameter chosen with the Tweak button. Editing will light the Preset button LED indicating the preset has been edited.

Front Panel Descriptions



7. Preset Button

Tap to advance and cycle through the 10 presets. Hold to store an edited preset.

8. Preset Numeric Display

Shows the current preset number in normal operation. Shows the style variation number when the Tweak button is held. Temporarily shows HardTune key and scale when HardTune key set mode is active.

9. Style Bank Display

Shows which factory style bank the current preset is based upon.

10. Tweak Parameter List

Shows the parameter editable by the Tweak knob.

11. 48V Phantom Power Indicator

Indicates phantom power on or off. Hold the FX and Mod buttons for a moment to activate.

12. Stereo Indicator

Shows stereo output. Hold Reverb and Tweak for a moment to switch between stereo or mono.

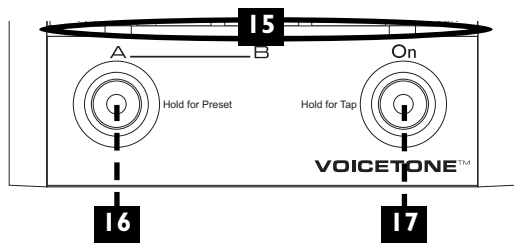
13. Effect On/Off Buttons

Press to turn effect blocks on and off in the preset.

14. Tweak Button

Tap to cycle through tweak parameters for adjustment.

Front Panel Descriptions



15. LED Indicator Bar

A single LED lit above the A or B legend indicates the respective effect selection is loaded in a preset. When both A *and* B are lit, this indicates Preset Select mode (described below). The LED above the On footswitch indicates on or off status of the main effect in Create XT.

16. Preset A and B Select Footswitch

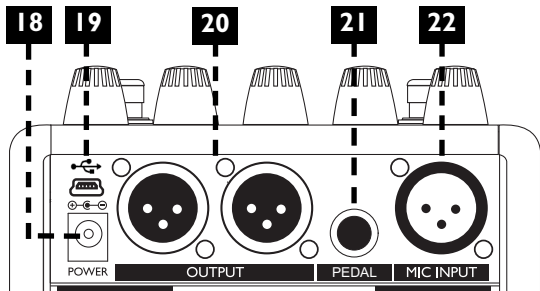
This footswitch allows access to up to 20 different effects. When either the A or B light is lit, tap the A/B footswitch to toggle between two effect settings quickly. To access more presets, hold this footswitch to enter

Preset Select mode. Both the A and B LEDs will be lit. Now, pressing the A/B button cycles forward through the “A” preset settings or “B” preset settings, depending on whether an A or B was loaded when you held the footswitch.

17. On Footswitch

Tapping this footswitch engages or disengages the effects in the current preset. Holding this footswitch for a moment will enter Tap Tempo mode where you can then tap it to synchronize the tempo of the Delay block effects with your music. To exit Tap mode, hold again.

Back Panel Descriptions



18. Power Input

Connect the supplied DC power adaptor here. Connecting power to Create XT turns it on immediately as there is no on/off switch on the product.

19. USB Connector

Allows Create XT to communicate with a computer for backup and updates. See “Using the VoiceSupport Application” section for details.

20. Outputs

These XLR jacks supply the left and right outputs of Create XT in stereo (default) or mono using only the Left output. When configured for mono, the Right output produces the pre-amplified dry signal for external mixing.

21. Pedal Input

This input for a TC-Helicon Switch 3 footswitch provides convenient, individual effect on/off capability for the FX, Mod and Delay effects.

22. Mic Input Jack

Balanced, low impedance XLR input for your microphone.

Setup Considerations

Mono or Stereo Setup?

Most effects have a wider spatial effect in stereo, so if you have a stereo PA/sound system or you are recording, this will produce the best sound. This is especially true for presets based on reverb styles and ping pong delay styles.

Is my PA truly stereo?

Just having two speakers connected to a sound system doesn't mean it is truly stereo. To test that your sound system is stereo, connect your mic directly to a mixer channel and move the pan control on the channel left and right; if the sound moves from one speaker to the other, your PA is stereo.

To connect Create XT in stereo connect a pair of cables from the L/Mono and R/Dry outputs to two mixer channels in a stereo PA system. Make sure your mixer channels are panned hard left and right and the left/right levels are in balance.

If you do not have a stereo PA, then configuring Create XT for mono output is perfectly acceptable while reducing cabling and mixer channel usage.

What Is The Pedal Input For?

This is an option that makes Create XT more like its big brother, VoiceLive 2. Part of the appeal of that product is that you are able to turn effect blocks on and off within the preset while standing. The sound of a Create XT preset is generally made up of several effect blocks



hooked together and, with the Switch 3 footswitch, you can turn each on and off when you want. As well, you can activate an effect that is currently off in the preset which expands the range of sound possible without switching to another preset.

There are four effect blocks in Create XT and the optional footswitch gives you control of the **FX, Mod and Delay blocks**. Generally, reverb effects are left activated throughout a performance and there is no external footswitch control of this effect. To turn off a reverb effect when you'd like to talk to your audience, simply engage bypass by tapping the On button.

Do I Tap Or Hold The Footswitches?

The footswitches on Create XT have different actions depending on whether they are tapped briefly or held to give you a full range of performance options from a standing position. The hold time to change modes on both the AB and On footswitches is approximately 1 second. To avoid accidental mode changes in

performance, make sure your foot briefly taps the AB or On footswitches when required and that you do not hold them.

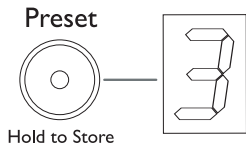
What Is Remembered Over Power Cycles?

All features that you can set on Create XT except knob positions are recalled on power up. This includes current preset, 48V, mono/stereo, AB and On button status etc.

Getting To Know Create XT

Auditioning Create XT's Presets

Press the Preset button to advance to the next preset number which will be shown in the main display. While on that preset, you can tap the AB footswitch to toggle between the two sound options in that preset. The LED above the respective A or B legends shows which is currently active.



Once you've tested each preset's A and B setting, you've heard the entire factory range of vocal effect presets.

What Is A Preset? What Is A Style?

A "preset" is a conveniently-accessed holding place for one of the factory styles and any edited "Tweak" settings that modify it. Each preset has two different settings, A and B which can be toggled back and forth quickly in performance. The A and B part are stored separately by press and holding the Preset button.

A "style" is a collection of factory settings that creates a single composite effect. You can create a new sound by selecting a style bank using the Style knob. You can get further variations on that style by press and holding the Tweak button. The style number will flash. Pressing the tweak button will cycle through the style variations for that bank. Press and hold tweak to go back to normal operation.

Selecting Sounds In Performance; The Right Method For You

Create XT has several ways of selecting effects from a standing position using the footswitches. The difference lies in how much you want to interact with the product in performance:

I. **One great sound:**

Use the factory default sound of preset #1 in the A position of the AB footswitch. With the Tone button engaged, this would make a useful, high quality effect you could use for an entire performance. Toggling

Getting To Know Create XT

this effect on and off with the On button will allow you to alternate between singing with the effects on and talking to your audience with the effects off.

2. Main and alternate sounds:

The method described above could serve most of your needs but when it's time for sonic contrast every now and then, you can use the AB footswitch to change to (and from) the B setting of your preset.

3. Cycling through the factory preset sounds

This method allows you to cover a wide range of vocal effects in many styles. Tap the AB footswitch so the A LED lights. Hold the AB footswitch to enter Preset mode (both A and B LEDs will light) and then tap the AB switch to advance to the next preset and so on. After the five presets, you will cycle back to the first. Create XT will remain in Preset mode each time it is powered up. When you are familiar with the sound of each numbered preset, you will find places to use them in particular songs or sections of songs.

4. Twenty sounds with A and B

This method allows you to access the maximum number of vocal effects in Create XT from a standing position. It involves jumping in and out of Preset mode discussed in the previous paragraph and then switching between the A and B settings when you arrive at each preset. Typically, you would enter Preset mode in between songs, find the preset with the sound or sounds you want and then switch out of Preset mode to switch between the A or B settings during a song.

5. Ultimate customization

For those who prefer to determine the exact sound and number of presets they use, Create XT offers this too. By adjusting the Tweak parameters and the Effect On/Off buttons described later in this manual, you can create effects that more closely fit your specific sonic goals. Additionally, if you require access to more than two but less than ten presets, there is a setup configuration that allows you to define the number of presets you prefer to cycle through (see For Advanced Users section).

Getting To Know Create XT

Using The Tone Feature

This deceptively simple button engages a complex signal chain that gives your vocals more professional polish. In most cases, all you need to do is turn the feature on and leave it on.

There are three effects in Tone that are commonly used in recordings to smooth and brighten vocals:

- Adaptive Shape EQ
- Compression
- De-essing

Adaptive Shape EQ offers tone shaping that adapts to the sound of your individual voice by reducing the extra low frequencies that come from singing very close to a microphone and by boosting high frequencies that help the voice cut through a mix.

Compression gently reduces the dynamic peaks of your singing so that when your voice is amplified, it sounds smoother.

De-essing is a process that reduces the level of “S” sounds, also known as sibilance and this also contributes to a smoother vocal sound.

The channel you connect Create XT into should have its tone controls set to the middle or off so they have no effect. Create XT's Tone is all the shaping you'll need. Also, the graphic EQ on the main output of your PA, if it has one, should be set to flat or used only to cut feedback frequencies.

Because the Tone feature adds brightness which can contribute to feedback, you should make sure your monitors are pointed to the dead area of your mic and your PA is in front of you facing your audience.

The Effect Blocks

Each Style in Create XT is made up of some combination of four “blocks” which can be thought of as separate effect processors. These are organized as follows on the front panel:

FX

The FX block incorporates the Transducer and HardTune blocks. The Transducer creates filtered and distorted effects such as megaphones and telephones. The HardTune effect is similar to the extreme pitch correction sound of artists such as T-pain, Kanye West and Cher.

Mod

This is the “micromod” block that creates sounds that modulate such as chorus and flange. The Mod effects can also use detuning to add thickness or create wild special effects.

Delay

The Delay block produces echo effects such as Slap, Ping Pong, and Tap Tempo. Slap echo is the shortest of these and recreates the first echo effects used in the 1950's. Ping Pong is longer and will bounce from side to side in stereo. Tap Tempo echo has echo repeats that follow the beats of your song. For more information on Tap Tempo see “Using Tap Tempo” later in this chapter.

Reverb

This effect simulates the effect of being in an acoustic space. Factory reverb effects include rooms, halls and styles that simulate electromechanical devices used in the past to imitate “real” acoustic space such as plates and springs.

Factory styles have predefined settings for each block. For example, one may have the Reverb block configured as a small, reflective room and another may have a large dark-sounding hall.

Getting To Know Create XT

Using HardTune

This effect sounds best when a key, e.g. A minor, has been set. There is a convenient way to enter a key for each song you plan on using it in. If you're unsure of the key of your song, often it is the same as the first or last chord of the song.

To enter or confirm the HardTune key:

1. Find a preset or style with the HardTune effect active.
2. Hold the AB and On footswitches for a moment. All 3 LEDs will flash and the main LED display will show the key.
3. Within 2 seconds tap the AB footswitch to enter key: A, B, C etc. Tap the On footswitch to switch between major and minor. After 2 seconds of no footswitch input, the displays will return to normal automatically.

The display will show the key as follows:

A major  A minor  ...  A# 

Modifying The Preset Effects

In Create XT, you have the ability to modify all of the presets and store edited copies of them at the preset location number they started on. You can then call them up when required using one of the methods described previously.

There are several methods for editing:

1. Load a different style from the style bank by turning the Style knob. The location of the style is shown by its bank and the number shown briefly in the main display as you turn the Style knob.
2. Turn effect blocks on or off within the style by pressing the FX, Mod, Delay or Reverb buttons.
3. Press the Tweak button to select a parameter from

the “tweak list” and then adjust it with the Tweak knob.

- Using the optional Switch3 footswitch to turn effect blocks on and off.

It's usually best to find a preset or style that is close to what you want and then tweak it and store it.

Tweaking Styles

Each style has settings that can be adjusted (or “edited”) to customize the effects stored in a preset. In Create XT, editing style values is referred to as “tweaking”.

To edit the current style, tap the Tweak *button* to select from the column of parameters, then turn the Tweak *knob* to adjust it.

If an effect block is off, its tweak parameter will not be available when cycling through the list.

Turning the Tweak knob may adjust one, or several settings together, depending on the style. The tweak parameters are described below. See the Style List and Tweak Assignment table at the end of this manual for more detail on Tweak targets.

1. Balance

Allows level adjustment of any *individual* effect block that is active. Disable other blocks to adjust each one's level in turn. If more than one block is on, a factory mapping will choose a suitable effects block to adjust.

2. Reverb

Sets the Reverb decay parameter from short to long (length or size of the reverb).

3. Delay

If the delay style is under 350ms, the Delay Tweak will set delay time between 0ms and 350ms. If the delay style is over 350ms, then the Delay Tweak will control Feedback. If you are on a short delay preset and tap in a delay time, the Tweak knob will change to Feedback.

Getting To Know Create XT

4. Mod

When the uMod style uses modulation, the ModTweak is assigned to modulation speed. If there is no modulation, the Mod Tweak controls the amount of detune. Zero detune is in knob's center position and the left and right positions are -25L/+25R and +25R/-25L respectively.

5. FX

If HardTune is on without Transducer, the FX Tweak controls Gender. When Transducer is active with no distortion, the FX Tweak is assigned to HighPass. If there is distortion in the style then the FX Tweak controls distortion amount.

Storing Your Edits

When you're done editing and have a sound you would like to save, press and hold the Preset button for a moment. This will commit the changes you made to the current preset number and A or B location. If you wish to return your Create XT to its factory set of presets,

you may do this by resetting the unit as discussed in the "For Advanced Users" section.

Browsing Styles By Category And Genre

To simplify your search for the perfect sound, Create XT's style library is arranged in two ways: by effect category and by the musical genre in which you might find the effect. Each bank has styles covering a wide range while staying true to the main category or genre.

The Showcase category contains a sampler of all Create XT's best sounds. The remaining categories highlight each effect block in turn though there may be other active effect blocks that support the main effect. There is a full listing of banks and stylenames at the end of this manual.

Getting To Know Create XT

The categories are:

Showcase
Reverb
Delay
Mod
FX

The genres are:

Pop/R&B
Rock/Metal
Oldies
Jazz / Ballad
Electronic

Using Tap Tempo

When you need a long echo effect, it's best to have the repeats timed to the beats of your song. The Tap Tempo feature allows you to do this. A selection of factory presets and styles feature Tap Tempo ability. Some will have echoes falling exactly on the beat while others fall within beat divisions e.g. 8th or 16th notes.

To use the Tap Tempo echo effect:

1. Find a preset or style where the Delay effect is ON.
2. Make sure the effect is turned on (the On LED should be lit).
3. Hold the On footswitch for a moment
4. Tap the On footswitch in time with your music. Usually only a few beats is necessary.
5. Hold the On footswitch to exit Tap Tempo mode.

You can now store this tempo with the preset if you like.

If you hold the On footswitch to enter Tap Tempo mode and the LED blinks quickly twice but will not stay lit, the feature is not available in the current preset or style.

For Advanced Users

The Alternate Tone Settings

Because the Tone feature is adaptive, you generally won't need to change it but there are additional settings that may refine it for those who care to.

To access the Alternate Tone settings, hold the Tone button until you see the Preset number display flash. You can tap the Tone button to cycle through the numbered choices shown below:

- d. Default setting. Best for most situations.
 - 1 Best if you have a very bright sounding PA. Reduces brightness a little.
 - 2 Adds "warmth" to the default setting for a slight Bass boost at a narrow frequency.
 - 3 Default plus increased compression. Caution: this increases the likelihood of feedback.

Restoring Factory Presets And Settings

If at any time you want to get VoiceTone Create XT back to its original presets and settings, follow this procedure.

1. Disconnect the power adapter from Create
2. Press and Hold the FX and Tweak buttons while plugging the power adapter into Create XT.
3. Create XT will clear all the performance information and return it to factory settings. Once this is done (it only takes a couple seconds), Create XT is ready to go.

External Mixing With Mono And Dry Outputs

The Dry output can be mixed externally with the mono output so that the balance between your dry voice and the effects can be adjusted by a sound engineer.

To use the Dry/Mono setup:

1. Connect each output to a separate mixer channel.
2. Set Create XT's Mix control to 100% wet (fully right).
3. Have your engineer raise or lower the mono effects output channel on the mixer to suit your music.

We've made every effort to ensure that the effects are well-balanced when the Mix control is set to its center detent. This external mix feature allows for dynamic effect level during performance.

Note 1: The Transducer and HardTune effects sound best fully wet so, when you use these styles, your engineer will need to mute the dry channel.

Note 2: The Tone effect is active on your voice as it comes from the Dry output.

Changing The Number Of Presets

The default configuration of Create XT is to offer ten presets each having an A and B setting. This allows you to cycle through them with ten footswitch pushes before cycling around to the one you started on. If you would like to reduce the number so you can cycle through from three to nine presets only, there is a way to set this in Create XT.

To set the accessible number of presets, power up holding the Preset button. After a moment, the number "0" will show the default number of presets which is 10. Tap the Preset button to change the limit from 3 through 0(10). 1 and 2 are not options. Hold the Preset button to store this setting and exit to normal operation with your revised number of accessible presets.

Using the VoiceSupport Application

Overview

Create XT ships complete with a CD containing the VoiceSupport application. Once installed on your Windows or Mac computer, this will allow you to:

- o Backup and restore any presets you've created
- o Stay up-to-date on news items regarding tips and tricks, version updates and video tutorials
- o Register your product quickly and easily
- o Perform version updates if and when they become available

Requirements

- o Mac with version 10.x or newer OS
- o PC with XP
- o Internet connection.

Installing VoiceSupport

1. Place the CD that came with your product into the CD drive of your computer. If you do not have the CD go to www.tc-helicon.com/voicesupport.asp

to download the latest version.

2. The CD will run the setup program automatically. If it doesn't, browse the CD and run Setup.exe.
3. Follow the prompts to install VoiceSupport.
4. Connect Create XT to the computer with the supplied USB cable, apply power to Create XT.
5. Click on the VoiceSupport icon on your desktop to run VoiceSupport.

First Impressions

VoiceSupport will connect with Create XT and show an icon indicating connection is successful (If it is not successful after several attempts see the FAQ section of this manual). After that, VoiceSupport will check with the TC-Helicon website and see what the latest news items specific to Create XT are. Clicking on news items will open them. Make sure to scroll down in the HOME window to see if there is more content there. The "New" icon will disappear once you've read an item. As of this writing, news items are permanently displayed in VoiceSupport.

Using the VoiceSupport Application

Once you've browsed the news items, please take a moment to register your product by clicking on the REGISTER button on the top menu and filling out the online form.

The DOWNLOAD Tab

From time to time, a new firmware version aka "update" of Create XT may be available. Updates usually contain users' feature suggestions, improvements and bug fixes.

The DOWNLOAD tab is only used when an update is available for your product. Depending on whether an update is available, this may show only the "Load a SysEx file..." item or, above it, an item describing an update. If there are several, the top item is the newest. Be sure to read any details on update items before installing onto your product.

The BACKUP Tab

If you have edited the presets on your Create XT, you may want to back them up on your computer for

safekeeping. You can also use this tab to transfer your presets to another Create XT. There are two windows: Backup and Restore. Backup saves your presets and/or setup parameters (48V on/off, Stereo/mono etc) into a user-specified folder on your computer and Restore returns this same data from the computer to your Create XT. The table below shows the mapping of Create XT presets (in grey) to VoiceSupport numbering.

1A	1	6A	6	1B	11	6B	16
2A	2	7A	7	2B	12	7B	17
3A	3	8A	8	3B	13	8B	18
4A	4	9A	9	4B	14	9B	19
5A	5	0A	10	5B	15	0B	10

Check Back!

The news items that VoiceSupport downloads can benefit you and increase enjoyment and knowledge about your product. Make sure to run the app now and then (even without Create XT connected) to see what's new.

FAQ and Troubleshooting

FAQ & Troubleshooting:

1. I'm not getting any sound from Create XT

- Confirm the PA is on and the mixer channel is turned up.
- Check each cable by connecting your mic directly to the sound system and testing.
- Check that the 48V light is lit if you are using a phantom powered condenser mic.

2. I'm only hearing my dry voice

- Confirm that the On footswitch light is on.
- Set Mix knob to center detent position.
- Check that Create XT's Left/Main output is connected to your PA if running in mono.
- Check that at least one effect on/off is active.

3. My sound is distorted.

- Check if the current patch is a Transducer patch that has distortion enabled.
- If the input light is turning red frequently, reduce input level.

4. I'm getting feedback

- Move the PA speaker or monitor so it is in a line with your mic and facing you.
- Reduce volume of the PA
- Use Tone setting alternate #1 with less high boost or turn Tone off altogether.

5. I can't turn effects off or on

- Press and hold the On footswitch to exit Tap Tempo mode.

6. Some blocks aren't working

- There are presets that require multiple blocks engaged in order to complete the effects path. Turn on additional blocks to get sound.

Analog Inputs

- Connectors Balanced XLR, Input Impedance 1kOhm
- Mic Input Sensitivity @ 0dBFS -44dBu to +2dBu
- Mic Input Sensitivity @ 12dB headroom -56dBu to -10dBu
- EIN @ max. mic amp gain, Rg = 150 Ohm -128dBu

Analog Outputs

- Connectors Balanced XLR
- Output Impedance 40 Ohm
- Output Level @ 0dBFS +2dBu

Input to Output Analog Audio Performance

- Dynamic Range, Mic. @ Min gain 20Hz-20kHz *A-weighted >108dB
- Dynamic Range, Mic. @ -18dBu sensitivity 20Hz - 20kHz > 104dB
- THD+ Noise, Mic. @ Min gain <-90dB
- Frequency Response, Max gain
-1.5dB @ 40 Hz, (200Hz to 20 kHz), +0/-0.3 dB

Conversion Characteristics

- Sample Rate 48 kHz,
- Converter AKM AK4620B
- AD / DA Conversion 24 bit, 128x oversampling bitstream

EMC & Safety

- Complies with EN 55103-1 and EN 55103-2 FCC part 15, Class B, CISPR 22, Class B
- Certified to IEC 65, EN 60065, UL6500 and CSA E60065 CSA FILE #LR108093

Environment

- Operating Temperature 32° F to 122° F (0° C to 50° C)
- Storage Temperature -22° F to 167° F (-30° C to 70° C)
- Humidity Max. 90 % non-condensing

Supplementary

- Dimensions 130mm x 132mm x 41mm (5" x 5.25" x 1.5")
- Weight 1.5 lb. (0.72 kg)
- Warranty Parts and labor 1 year

Style List

Bank	Preset	Variation	Style Name	Balance	Reverb	Delay	µMod	FX
Showcase	1A	0	Broadway Hall	Reverb	Decay	Feedback	Detune	HighPass
		1B	HardTune Echo	Delay	Decay	Feedback	Speed	Gender
		2	Us & Them	µMod	Decay	Feedback	Speed	Gender
		3	Megaphone room	Reverb	Decay	Feedback	Speed	Distortion Amount
		4	Slappin' Spring	Delay	Decay	Delay Time	Detune	HighPass
		5	Thicken Verb	µMod	Decay	Delay Time	Speed	HighPass
		6	Filtered Echo	Delay	Decay	Feedback	Speed	HighPass
		7	Fast Rotor	Delay	Decay	Feedback	Speed	Distortion Amount
		8	Megaphone+Dry	µMod	Decay	Feedback	Detune	Distortion Amount
Reverb	2A	9	Octave Down	µMod	Decay	Feedback	Speed	Gender
		0	Snappy Room	Reverb	Decay	Feedback	Detune	HighPass
	2B	1	Smooth Plate	Reverb	Decay	Feedback	Detune	Gender
		2	Broadway Hall	Delay	Decay	Feedback	Speed	Distortion Amount
		3	Subtle Spring	Delay	Decay	Delay Time	Speed	HighPass
		4	Music Club	Reverb	Decay	Feedback	Detune	Distortion Amount
		5	Wood Chamber	Reverb	Decay	Feedback	Speed	HighPass
		6	Dome Chapel	Reverb	Decay	Delay Time	Speed	Distortion Amount
		7	RealPlate Long	Delay	Decay	Feedback	Detune	Distortion Amount
Delay	3A	8	Cozy Corner	Reverb	Decay	Delay Time	Detune	Distortion Amount
		9	Indoor Arena	Reverb	Decay	Feedback	Speed	HighPass
	3B	0	Us & Them Mono	Delay	Decay	Feedback	Speed	Gender
		1	Narrow Multitap	Delay	Decay	Feedback	Detune	HighPass
		2	Mono Rockabilly	Delay	Decay	Delay Time	Speed	HighPass
		3	Stereo LongPong	Delay	Decay	Feedback	Speed	HighPass
		4	Early Room	Delay	Decay	Delay Time	Speed	Distortion Amount
		5	Wider Multitap	Delay	Decay	Feedback	Detune	HighPass
		6	1/8th No Feedback	Delay	Decay	Delay Time	Speed	Distortion Amount
7	1/8 Feedback	Delay	Decay	Feedback	Detune	Distortion Amount		
	8	Mono Triplet	Delay	Decay	Feedback	Speed	HighPass	
	9	Triplet Pong	Delay	Decay	Feedback	Speed	HighPass	

Tweak Assignment

Style List

Bank	Preset	Variation	Style Name	Tweak Assignment					
μ Mod				Balance	Reverb	Delay	μ Mod	FX	
	4A	0	Light Flange	μ Mod	Decay	Feedback	Speed	Distortion Amount	
	4B	1	Med Chorus	μ Mod	Decay	Feedback	Speed	HighPass	
		2	Tube Flange	μ Mod	Decay	Feedback	Speed	Gender	
		3	Fast Chorus	μ Mod	Decay	Feedback	Speed	HighPass	
		4	Silk Flange	μ Mod	Decay	Feedback	Speed	Distortion Amount	
		5	Fast Rotor	μ Mod	Decay	Feedback	Speed	Distortion Amount	
		6	Fast Phaser	μ Mod	Decay	Delay Time	Speed	Distortion Amount	
		7	Tube	μ Mod	Decay	Feedback	Detune	Distortion Amount	
		8	Panner	μ Mod	Decay	Feedback	Speed	HighPass	
9	Thicken	μ Mod	Decay	Feedback	Detune	Distortion Amount			
FX	5A	0	HardTuned Space	μ Mod	Decay	Feedback	Speed	Distortion Amount	
	5B	1	Tuned Megaphone	FX	Decay	Feedback	Detune	Distortion Amount	
		2	Megaphone	FX	Decay	Feedback	Speed	Distortion Amount	
		3	Hard Drive	FX	Decay	Delay Time	Speed	Distortion Amount	
		4	Tune Drive	FX	Decay	Feedback	Detune	Distortion Amount	
		5	Peak Drive	FX	Decay	Delay Time	Speed	Distortion Amount	
		6	Octave Down	μ Mod	Decay	Feedback	Speed	Gender	
		7	Megaphone Drone	FX	Decay	Delay Time	Detune	HighPass	
		8	Octave Up Distort	Reverb	Decay	Feedback	Speed	Distortion Amount	
9	Bandpass	FX	Decay	Feedback	Speed	HighPass			
Pop / R&B	6A	0	Kanye Lockdown	Delay	Decay	Feedback	Detune	Gender	
	6B	1	Distort Mix	μ Mod	Decay	Feedback	Detune	Distortion Amount	
		2	Praise You	μ Mod	Decay	Feedback	Speed	Distortion Amount	
		3	Pop Doubling	μ Mod	Decay	Feedback	Speed	HighPass	
		4	HardTune Megaphone	Delay	Decay	Feedback	Detune	HighPass	
		5	In The Air	μ Mod	Decay	Delay Time	Speed	HighPass	
		6	Let's Dance	Delay	Decay	Feedback	Detune	HighPass	
		7	Distorted	FX	Decay	Delay Time	Detune	Distortion Amount	
		8	Coldplay Violet	Delay	Decay	Delay Time	Detune	HighPass	
9	Elton Bennie	Delay	Decay	Delay Time	Detune	HighPass			

Style List

Bank	Preset	Variation	Style Name	Balance	Reverb	Delay	µMod	FX
Rock/Metal	7A 7B	0	Bites Dust	µMod	Decay	Feedback	Detune	HighPass
		1	Been A LongTime	Delay	Decay	Delay Time	Detune	HighPass
		2	Black Dog	Delay	Decay	Feedback	Speed	HighPass
		3	Comfy Numb	Delay	Decay	Delay Time	Speed	HighPass
		4	Day Green	µMod	Decay	Feedback	Detune	HighPass
		5	Doubling	µMod	Decay	Feedback	Detune	Distortion Amount
		6	Come Together	Delay	Decay	Delay Time	Speed	HighPass
		7	Vertigo	Delay	Decay	Feedback	Speed	HighPass
		8	BlueJayWay	µMod	Decay	Delay Time	Speed	HighPass
Oldies	8A 8B	0	Slap LoFi	Delay	Decay	Delay Time	Detune	HighPass
		1	LoFi Verb	Reverb	Decay	Delay Time	Speed	HighPass
		2	LoFi Verb2	Reverb	Decay	Delay Time	Speed	Distortion Amount
		3	EchoPlate	Delay	Decay	Feedback	Detune	HighPass
		4	Rock On	Delay	Decay	Delay Time	Detune	HighPass
		5	Depeche Plate	Delay	Decay	Delay Time	Detune	HighPass
		6	Heartbake Hotel	Delay	Decay	Delay Time	Detune	HighPass
		7	Ring of Fire	Delay	Decay	Delay Time	Detune	HighPass
		8	Bennett Chicago	Delay	Decay	Delay Time	Detune	HighPass
Jazz/Ballad	9A 9B	0	Clipped Motown	Reverb	Decay	Delay Time	Detune	Distortion Amount
		0	Jazz Plate	Reverb	Decay	Delay Time	Detune	HighPass
		1	Roomish	Reverb	Decay	Delay Time	Detune	HighPass
		2	PreDelayVerb	Delay	Decay	Feedback	Detune	HighPass
		3	Locut fx send	Delay	Decay	Feedback	Detune	HighPass
		4	Hicut 1/2 Note	Delay	Decay	Feedback	Speed	HighPass
		5	Thicken Lowcut	µMod	Decay	Feedback	Detune	HighPass
		6	Phone Echo	Delay	Decay	Feedback	Speed	HighPass
		7	Short Ambience	Delay	Decay	Delay Time	Speed	HighPass
8	Ducked LongEcho	Delay	Decay	Feedback	Speed	HighPass		
	9	SpringyPreDelay	Delay	Decay	Delay Time	Speed	HighPass	

Tweak Assignment

Style List

Bank	Preset	Variation	Style Name	Tweak Assignment				
				Balance	Reverb	Delay	μMod	FX
Electronic	10A	0	Double and Mayo	μMod	Decay	Feedback	Speed	HighPass
		1	Skinny 1/4 Note Tap	Delay	Decay	Feedback	Detune	Distortion Amount
	10B	2	Tap Ping Pong	Delay	Decay	Feedback	Speed	HighPass
		3	DistortFlg Delay	μMod	Decay	Feedback	Speed	HighPass
		4	Long Duck Delay	μMod	Decay	Feedback	Detune	Gender
		5	Long&Short Duck	Delay	Decay	Feedback	Speed	Distortion Amount
		6	HardTune Tap Delay	Delay	Decay	Feedback	Detune	Gender
		7	Octave Panner	μMod	Decay	Feedback	Speed	Distortion Amount
		8	Cylon Drone	μMod	Decay	Feedback	Detune	Distortion Amount
9	Days Go By	μMod	Decay	Feedback	Detune	Distortion Amount		

