

ETC Setup Guide

Universal Fader Wing Installation

Introduction

The Universal Fader Wings are peripheral devices that can expand the functionality of your ETC Eos®, Eos Ti®, Gio®, Gio @5®, Ion Xe™, Ion®, Cobalt®, Congo®, or Congo jr™, ETCnomad running on a PC (Mac OS is not supported) lighting control system. Fader wings are available in two different sizes: 2 x 10 (20 faders) and 2 x 20 (40 faders). Fader wings can be physically attached to a console or they can stand alone and attach using a USB cable and an external power supply. For information about the 1x20 fader wing, please see the Universal Fader Wing - 1x20 Setup Guide, which is available for download from the ETC website at www.etcconnect.com.



Note: *The 2 x 10 and 2 x 20 Universal Fader Wings are compatible with Eos v1.3.1 or higher and Congo/Cobalt v6.x.x software and above. The software is available from the ETC website at www.etcconnect.com. Consult the user manual and/or release notes of those control systems to determine the level of compatibility and complete functionality of the wings within those systems.*

Rules of Connection



CAUTION: *Disconnect power from your console before connecting or removing fader wings. "Hot swapping" (connecting or disconnecting with a powered, running console) is not advised and may cause data loss or other unexpected results.*

Universal Fader Wings may be connected together and then connected to a console or PC using a USB cable. They may also be physically attached to both Ion and Congo jr consoles. When attaching fader wings with a USB cable, one external power supply must also be used.

Rule One

Eos Family

Your entire system is limited to a total of 300 faders per processor.



Note: *Element™ does not support external fader wings.*

Cobalt/Congo Family

Cobalt and Congo consoles support up to 80 Master Playback faders, 40 of which are built into the console itself. Congo can support the connection of additional faders (up to two 2x10, or 1 2x20 wing, or the Master Playback Wing) via USB cable. The wing requires an external power supply when used via USB cable.

Congo jr consoles can support up to a total of 80 Master Playback faders (console + wings), in any combination of wings, as long as the total fader count is 80 or fewer.



Note: *Congo Kid® does not support external wings.*



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Product information and specifications subject to change. ETC intends this document to be provided in its entirety.

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Rule Two

USB 2.0 Consoles



Note: *Rule two only applies to USB 2.0 consoles, which have two network adapters, or ETCnomad Puck.*

Each fader wing can connect using a USB cable to the console, but must be powered separately.

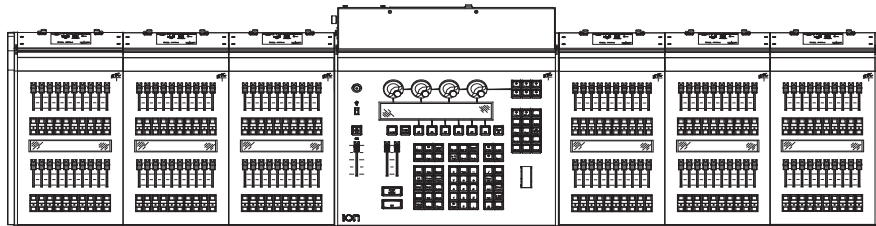
Fader wings with an orange USB connector can be used with no additional modification. You can use a USB cable or physically attach them directly to the console.

Fader wings without an orange USB connector cannot be physically attached directly to the console or daisy chained to Eos Motorized Fader or Standard Fader wings without upgrading the hardware. Universal fader wings can be daisy chained together, but first, they must be plugged into a USB 1.1 hub and then connected using a USB cable to the console. There is a limit of three wings per port.

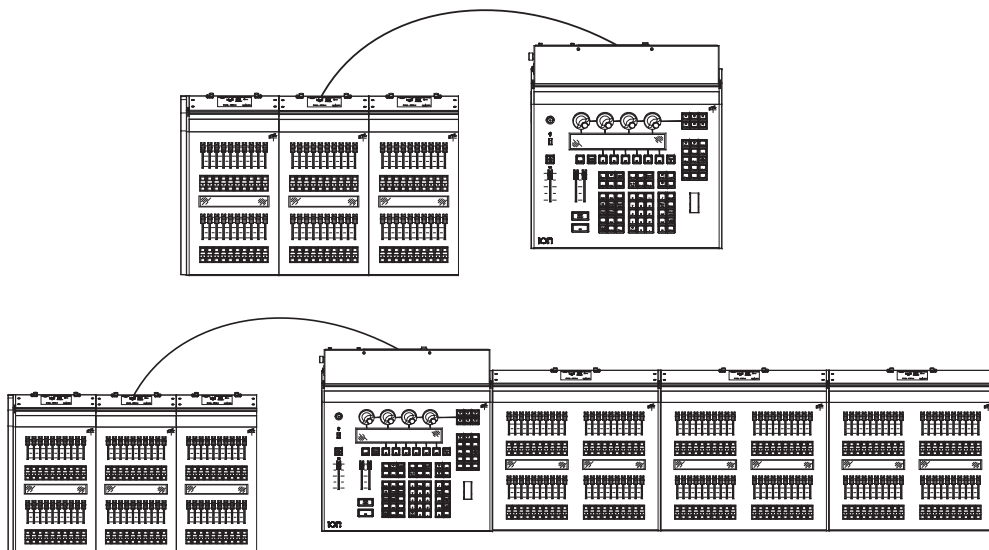
Rule Three

No more than three fader wings may be physically attached to each other. This means:

- An arrangement of three fader wings may be directly attached to either side of a console. For example:

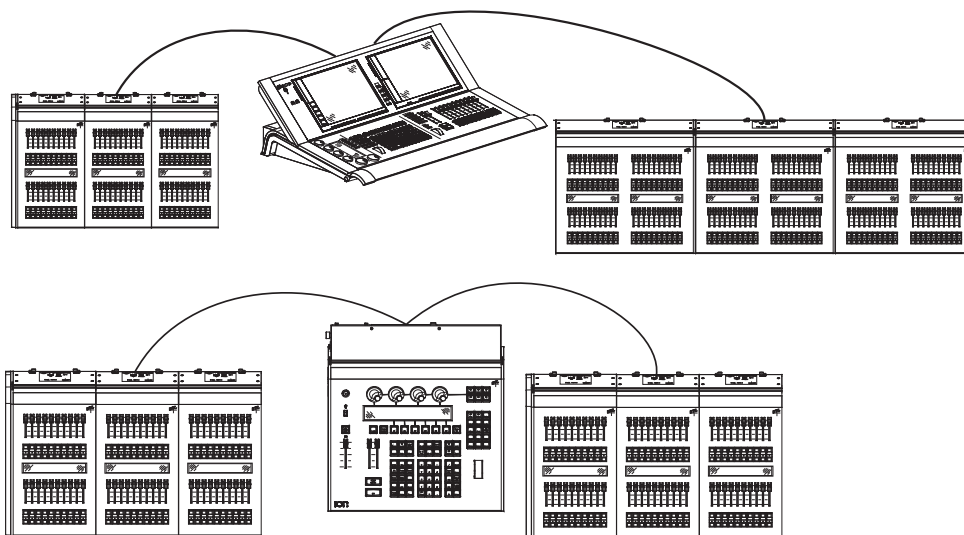


- An arrangement of three fader wings may be connected using a USB cable to form a single external array using an external power supply. For example:



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Note: *Since v1.7.0, Eos and Ion can support multiple banks of wings connected via USB cables.*



Note: *Fader wings will be automatically configured from left to right. For Eos Family devices, manual configuration of the wings can be done from the Setup menu.*

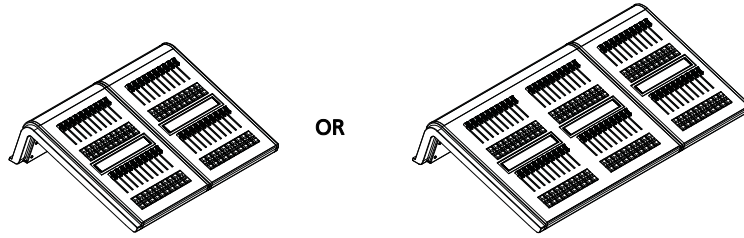


Note: *Only one wing (2 x 10 or 2 x 20) may be used with a personal computer that is running ETCnomad. Mac OS is not supported.*

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Attach Universal Fader Wings To Each Other

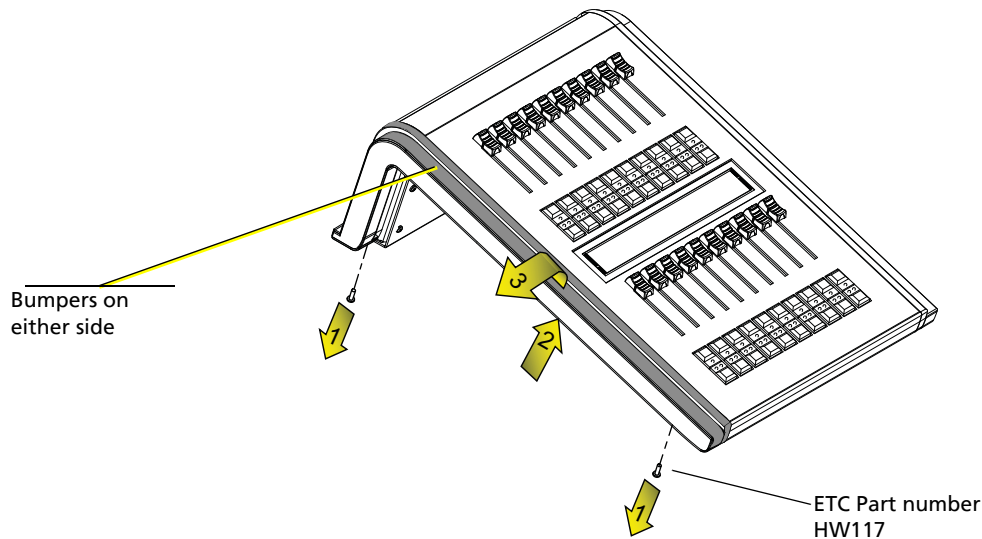


- 1: Using a #1 Phillips head screwdriver, remove the two screws (*ETC Part number -HW117*) securing the bumpers that will be removed from the appropriate side or sides of the wings. The bumpers will be removed in a later step.
 - a: Carefully turn the wing over and place it faders-down on a clear, flat work surface.



CAUTION: *Do not set the wing on the connector side (rear panel). Instead, place it face down on the faders.*

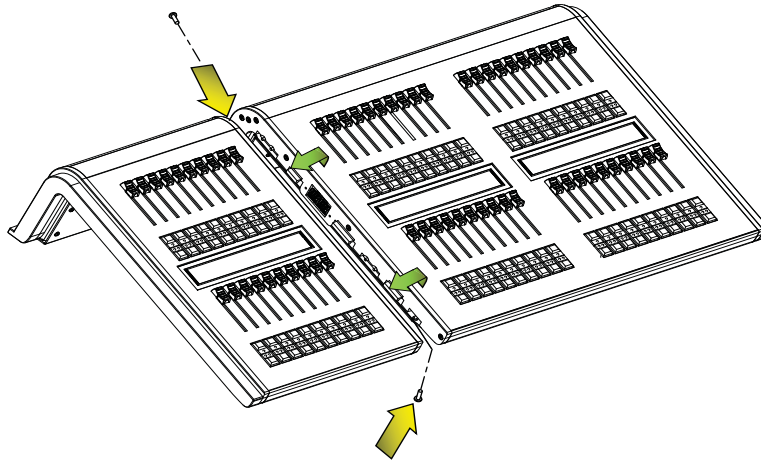
- b: Remove and save the two screws securing the bumper to the side of the wing.



- 2: Return the wing to its upright position.
- 3: Remove the bumper(s) from the wing.
 - a: Gently pull the bumper on the right side of the wing up until it is flush with the facepanel. Gently push the bumper on the left side of the wing down until it loosens from the facepanel.
 - b: Pull the bumper away from the facepanel until it is free from the wing.
- 4: Repeat steps 2 and 3 for each side of each wing that needs to be exposed.
- 5: Align the two wings. Lift the wing on the right and place it gently on the hooks provided on the wing on the left. Check that the two wings are aligned properly front and back, then press down gently on the wing on the right until it is fully seated. This should be a smooth connection but may require a little force

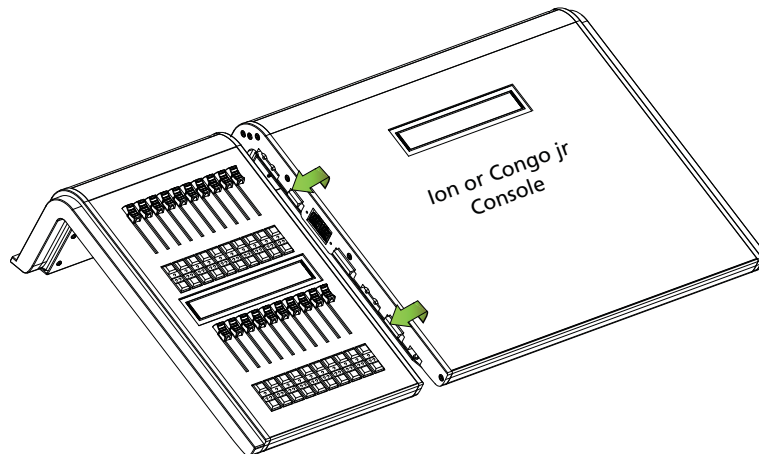
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- 6: Repeat above procedure to connect another wing to the right end of the pair, if desired.
- 7: Re-insert screws to secure wings together and secure the bumpers to the sides of the wings.

Attach Universal Fader Wing(s) directly to Console



CAUTION: *No USB cables or external power supplies should be used when connecting Universal Fader Wings directly to a console.*

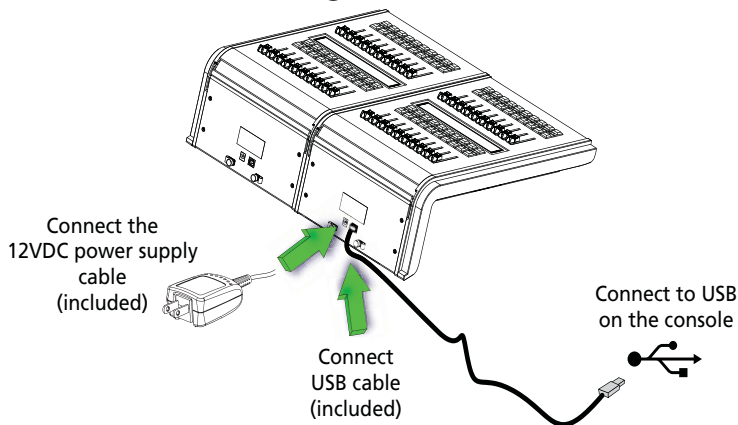
- 1: Using a #1 Phillips head screwdriver, remove the two screws securing the bumpers that will be removed from the appropriate side or sides of the wings. The bumpers will be removed in a later step.
 - a: Carefully turn the wing over and place it faders-down on a clear, flat work surface.
 - b: Remove and save the two screws securing the bumper to the side of the wing.
- 2: Return the wing to its upright position.
- 3: Remove the bumper(s) from the wing.
 - a: Gently pull the bumper on the right side of the wing up until it is flush with the facepanel. Gently push the bumper on the left side of the wing down until it loosens from the facepanel.
 - b: Pull the bumper away from the facepanel until it is free from the wing.
- 4: Repeat steps 2 and 3 for each side of each wing that needs to be exposed.

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- 5: Align the wing and the console. Lift the wing and place it gently on the hooks provided on the console. Check that the wing and the console are aligned properly front and back, then press down gently on the wing until it is fully seated. This should be a smooth connection but may require a little force.
- 6: Repeat above procedure to connect another wing to the other side of the console, if desired. If multiple wings are to be used, attach them to one another first and then to the console itself.
- 7: Re-insert screws to secure wings and console together and secure the bumpers to the sides of the wings.

Connect Universal Fader Wing(s) to Console with USB Cable



- 1: With the console power off, attach the USB cable (provided) between the console and one wing as shown above. If multiple wings are joined, only one power and one USB connection may be used for all joined wings.
- 2: Using the power supply adaptor kit, connect the fader wing to a power source.
- 3: It is recommended that you run the power and USB cables through the strain relief included on the back of the wings.
- 4: Turn the console on.



CAUTION: *Wings connected using a USB cable require an external power connection. An external power supply was included with your Universal Fader Wing. On wings without an orange USB connector, this connection remains active even after the console has been shut down. ETC recommends unplugging the power connection after shutting down the console.*
