FTB

FSR Trigger BOX

Thank you for purchasing the FTB from Alternate Mode.

The FTB is designed to power **single** and **dual zone** FSR trigger pads, e- drum heads from Alternate Mode and Aquarian Drum heads as well as our drumKAT HybriKIT, jamKAT mini and other FSR triggers such as the altZone and eRIM. The FTB can power up to 12 triggers simultaneously. This eliminates the need for individual inBOX's and batteries for each trigger pad.   The FTB is powered by a single wall wart adapter.

The output of the FTB plugs directly into your drum module's trigger inputs. It sends out voltage (just like piezos) to the sound module. But because these sensors are FSR, the triggering is super clean and fast. There is no need to worry about any false triggering either because these sensors work on pressure, not vibration.

There are 6 Stereo Inputs and Six Stereo Outputs on the FTB as well as a HD15 connector.

Connecting is EASY!

INPUT (plugging into the FTB)

If you have a **single zone** FSR sensor/pad plug a **Mono ¼" jack** into the FTB's inputs.

If you have a **dual zone** FSR sensor/pad, plug a **Stereo ¼" jack** into one of the FTB inputs.

OUTPUT (sending signal to your drum module)

If you have a **single zone** sensor, plug a **MONO ¼" jack** (corresponding to the connection on the input) and plug that cable into your drum module.

If you have a **dual zone sensor**, you have a choice.

Plug a **stereo ¼" cable** (TRS) into the corresponding output. One trigger will be on the tip of the jack, the other on the sleeve. This works great IF your drum module accepts a dual zone "piezo" trigger. (not a membrane switch dual zone)

If you want two individual trigger outputs, use a splitter cable to create two independent trigger outputs.

The above connections are all you need for our single zone DITI Direct or our dual zone triggers and heads.

We've created a comprehensive list of all the possible combinations of input and output configurations. This means that if you have the original inHEAD or inBOX, there are a compatibility solutions using the FTB.

The DIAL on the FTB.

The dial on the FTB is the general sensitivity control of the FTB. When you connect the FTB trigger outputs to your drum module, you will need to set the gain and threshold on your module. The dial on the FTB further adjusts these settings. This setting is Global for all of the triggers.
For individual trigger settings, you can adjust that on your drum machine.

The rule of thumb is to use the lowest setting on the dial, then adjust using gain on your drum module. If you do not hear hard hits (velocity 127), raise the dial.
To make things easier, we've included a chart of our favorite trigger settings for various drum modules.
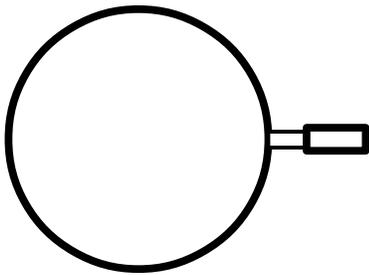
Connecting a 2 Zone FSR Pad to the FTB

2 Zone FSR Pads come with a stereo female jack.

To connect the **2 Zone FSR Pad** to the **FTB-**

1. Plug in a standard stereo 1/4" cable to any of the 1/4" input jacks on the FTB.

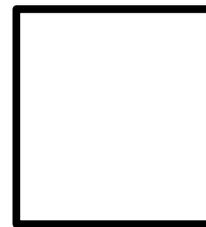2. Plug in a standard stereo 1/4" cable to the corresponding output of the FTB.

Note - The 2 zones may be separated on the output of the FTB by using a standard stereo to dual mono "Y" cable.

**2 Zone
HybriHEAD/PAD**

FTB

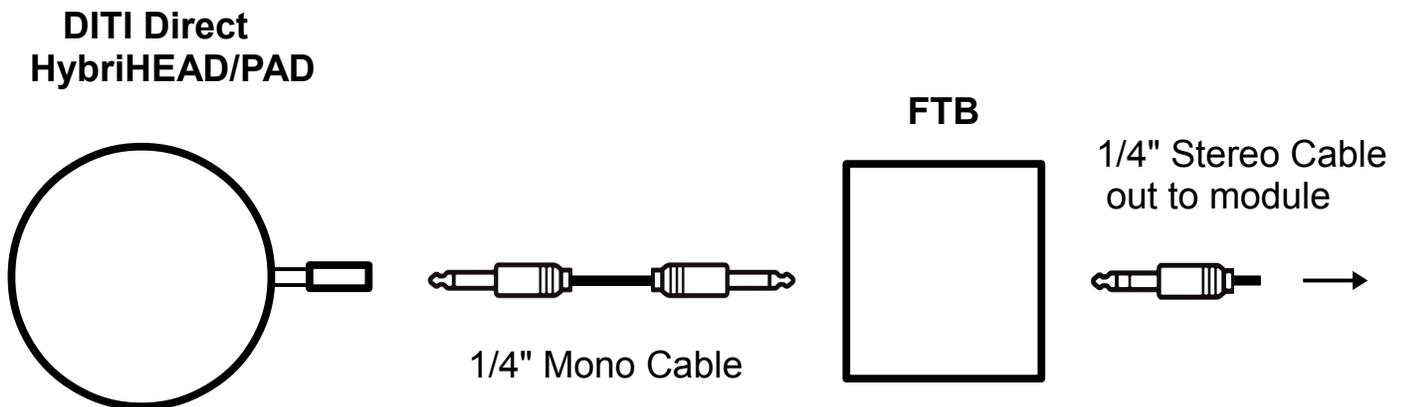1/4" Stereo Cable out to module

1/4" Stereo Cable

Connecting a DITI Direct FSR Pad to the FTB

DITI Direct FSR pads come with a stereo female jack.

To connect a **DITI Direct** FSR pad to the **FTB** -

1. Plug in a standard mono 1/4" cable to any of the 1/4" input jacks on the FTB.

2. Plug in a standard mono 1/4" cable to the corresponding output of the FTB.
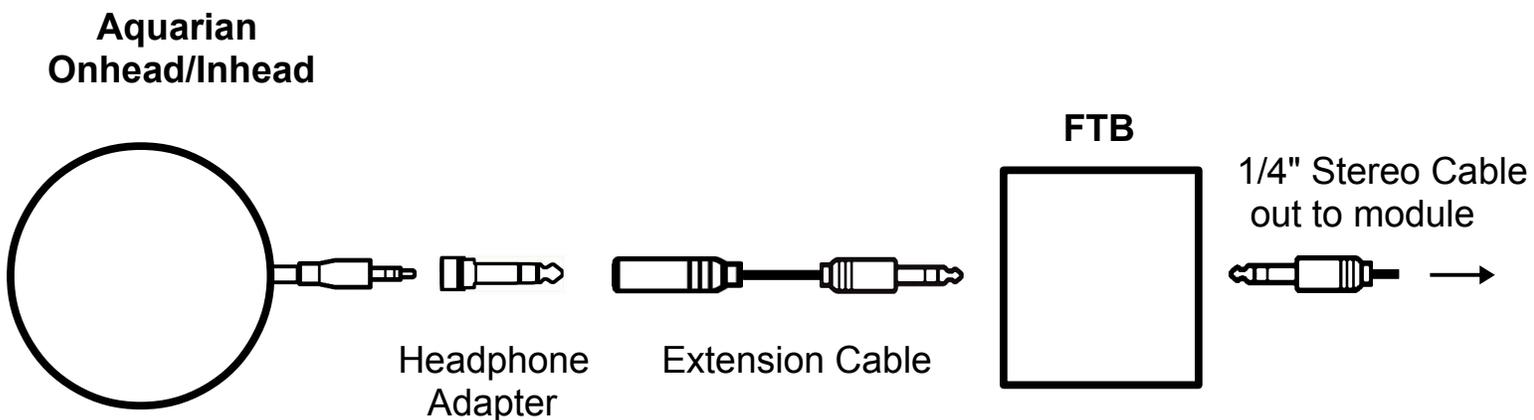
**DITI Direct
HybriHEAD/PAD**

FTB

1/4" Stereo Cable
out to module

1/4" Mono Cable

Connecting an Aquarian On/Inhead to the FTB

Aquarian Onhead/Inheads come with a mono 1/8" plug.

To connect the **Aquarian Onhead/Inhead** to the **FTB** -

1. Plug in a headphone adapter jack to the head.

2. Plug in a mono 1/4" extension cable to the headphone adapter jack.

3. Plug in the mono 1/4" plug to any of the 1/4" input jacks on the FTB.

4. Plug in a standard mono 1/4" cable to the corresponding output of the FTB.
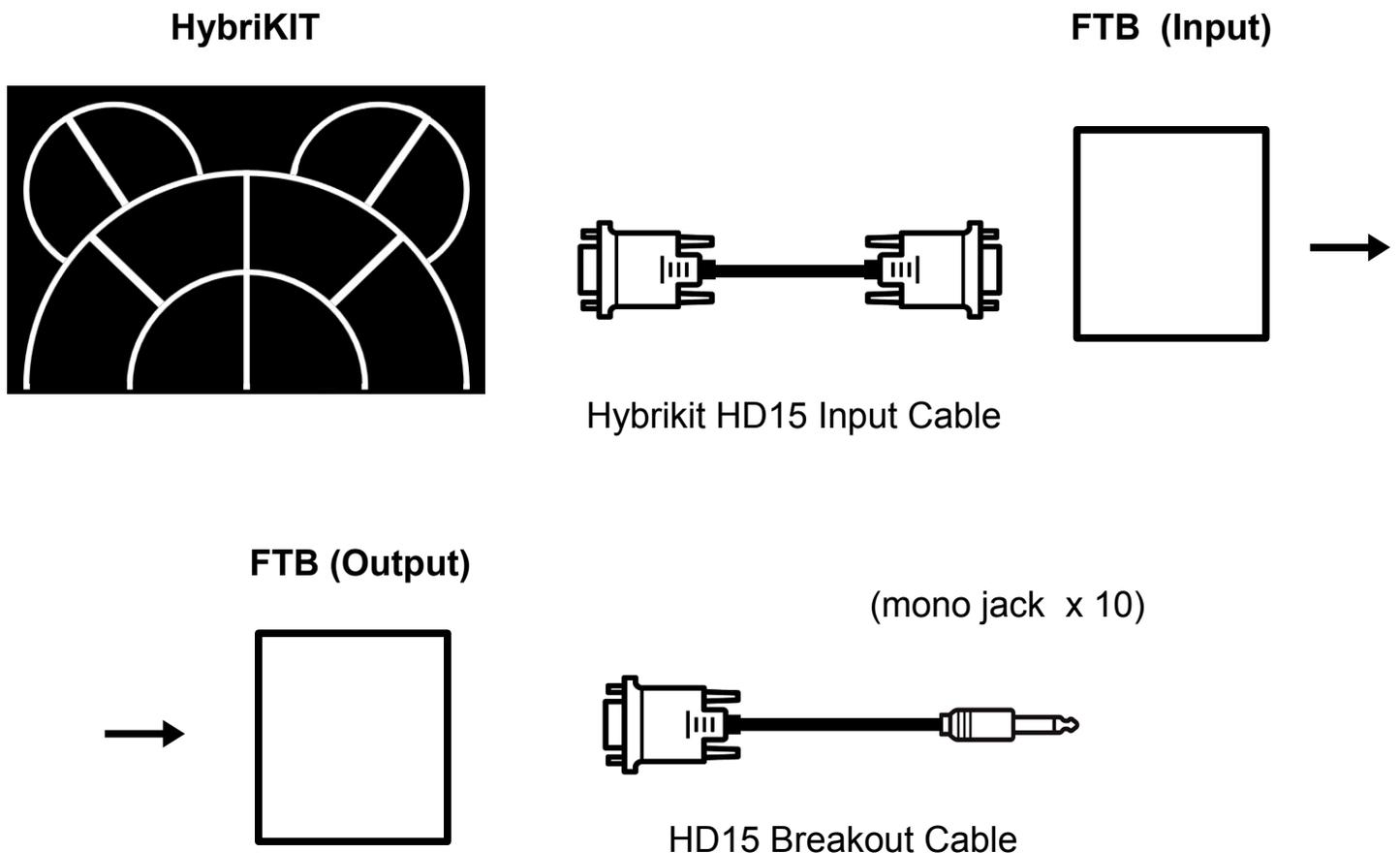
<u>Note</u> - You may also use an 1/8" extension cable with a headphone adapter jack instead of the 1/4" extension cable.

Aquarian Onhead/Inhead

Headphone Adapter

Extension Cable

FTB

1/4" Stereo Cable out to module

Connecting the HybriKIT to the FTB

The **HybriKIT** comes with a HD15 connector.
To connect the **HybriKIT** to the **FTB** -

1. Connect Alternate Mode's "Hybrikit HD15 Input Cable" to the HD15 connector on the HybriKIT.

2. Plug the other end to the input HD15 connector on the FTB.

3. Connect Alternate Mode's "Hybrikit HD15 Breakout Cable" to the output HD15 connector on the FTB.
    The mono plugs are labeled 1-10. Each plug corresponds to the pad number on the HybriKIT.
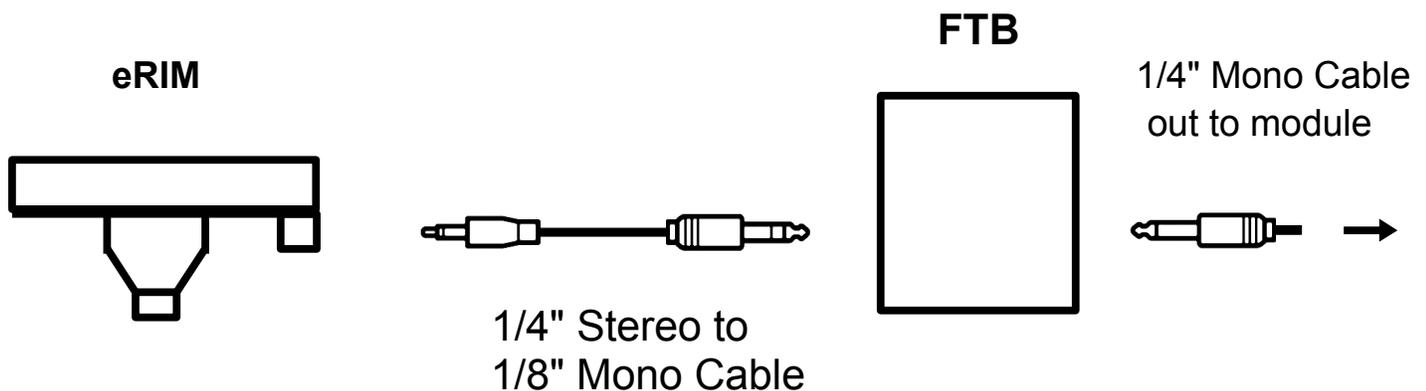
HybriKIT   **FTB (Input)**

Hybrikit HD15 Input Cable

FTB (Output)

(mono jack x 10)

HD15 Breakout Cable

Connecting an eRim FSR Pad to the FTB

eRIM FSR pads come with a mono female jack.

To connect an **eRIM** FSR pad to the **FTB** -

1. Plug in a 1/4" stereo male to 1/8" mono male cable to the eRIM pad.

2. Plug in the other end of the cable to any of the 1/4" input jacks on the FTB.

3. Plug in a standard mono 1/4" cable to the corresponding output of the FTB.

Note - You may also use an 1/8" mono cable with a headphone adapter jack to connect an eRIM to the FTB.

FTB

eRIM

1/4" Mono Cable
out to module

1/4" Stereo to
1/8" Mono Cable

Recommended settings for the FTB

Onhead (original, 2 Zone, DITI Direct)

Roland TD 20		Kat KT4		Yamaha DTX	
pad type	K85	pad type	snare	pad type	XP120/100
sensitivity	15	sensitivity	19	gain	35
threshold	0	threshold	0	curve	normal
curve	Exp1	curve	normal	FTB dial	2-3:00
FTB dial	9-10:00	FTB dial	9-10:00		

Inhead (original, DITI Direct, HybriHEAD)

Roland TD 20		Kat KT4		Yamaha DTX	
pad type	K85	pad type	snare	pad type	XP120/100
sensitivity	20	sensitivity	32	gain	63
threshold	0	threshold	0	threshold	0
curve	Exp1	curve	normal	curve	Hard 1
FTB dial	12:00	FTB dial	2-3:00	FTB dial	3-4:00