



ZOURMAN CONVERSION MODULE FOR ATV™ aD-H14 HI-HAT & 2BOX™ DRUMIT THREE

We'd first like to take a moment and thank you for purchasing a Zourman hi-hat conversion module!

The 2box module has become popular among e-drummers, mostly for its real samples and open-source approach. And while the module is compatible with triggers from other manufacturers, users have largely been restricted to 2box's proprietary hi-hat controller - something that changed through the introduction of DrumIt Three. However, not all hi-hat controllers are supported by DrumIt Three. Our newest conversion module solves this issue and adds support for ATV's IR-based hihat aD-H14 for use with the 2box DrumIt Three.

The Zourman Drums hi-hat conversion module add support for your favourite optical based ATV hi-hat. The solution is 100% plug and play and handles the ATV hi-hat control pedal. The Zourman electronics and intelligence handles the pedal signal and deliver the output to the 2box DrumIt Three hi-hat pedal input (stereo jack).

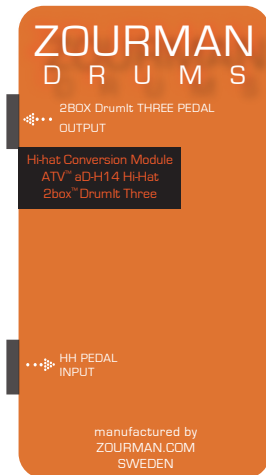
Note: The **ATV aD-H14** will not work on **2box DrumIt Three** directly through the built in support for Roland hi-hats. (ATV aD-H14 normally emulates Roland VH-13) The reason for this is that the active optical hi-hat control sends out different voltage levels between open/closed pedal instead of plain resistance - as other vendors do. This fools the hi-hat input on 2box DrumIt Three - so a Zourman Drums hi-hat conversion for aD-H14 is required.

The Zourman solution is the result of extensive research, development and rigorous testing with a range of equipment. Our testing has found that ATV hi-hats are very similar to 2box hi-hat response, but more reliable, more exact and creates a better drum feeling.

SETUP AND CALIBRATING THE ATV HI-HAT WITH THE 2BOX MODULE.

When you connect the hi-hat for the first time, you must perform a calibration. If the 2box module is not configured, a message appears on the 2box module asking you to calibrate the hi-hat. The normal setup scenario:

1. Connect the ATV hi-hat pedal output to the Zourman Conversion Module pedal input by plugging in a stereo cable.(TRS)
2. Connect the Zourman Conversion Module output to the 2box DrumIt Three module hi-hat pedal input (Input B), using a stereo cable. (TRS)
3. Connect the ATV Hi-hat bow/edge output (BOW/EDGE) directly to the DrumIt Three hi-hat trigger input (hh input A), using a stereo cable. (TRS)
4. Turn the ATV Hi-hat pedal power on. (The hi-hat pedal control will light up)
5. Do the calibration on the 2box module according to the 2box manual.
 - Press the UNIT button and go to the HCAL page using the PAGE buttons.
 - Check that the HTYP is set to "DEF".
 - Adjust the RAW value 800-850 when the hi-hat is closed - with the raw adjuster potentiometer in the rear of the 2Box device.
 - As soon as you have accessed the HCAL page, the calibration process will start automatically or press the DATA button to the left if it doesn't.
 - Now you see the flashing icon of a closed hi-hat and can proceed.
 - Now "Close" the hi-hat by releasing the clutch so that the pad rests on the bottom by it's own weight.
 - Press the left DATA button again and the flashing icon will change once more to resemble an open hi-hat.
 - Now mount the hi hat pad at the desired height, just like an acoustic hi-hat-cymbal.
 - Complete the calibration procedure by pressing the DATA button a third time.
 - If the calibration is successful, you will see "Done" in the display.
6. If you feel that the hi-hat get too loose and is not closing in a distinct way - Try to increase the PFACT value 5-10 steps.
7. Set your 2box module to KIT mode to keep the latency at a low level.



If the behaviour of the hi-hat, concerning playability and reaction, does not meet your expectations, you can repeat the process and alter the settings by varying the height of the hi-hat pad. You can also make further adjustments to the hi-hat. These are explained in the 2box manual. If the display reads "NoChg", there was a problem with the calibration. Check the setup and perform the procedure again.

General Notes for 2box Three tweaking tip for ATV aD-H14:

- Please note that a wrongly connected cable could seriously damage your 2box module.
- Don't try using the Zourman Drums Conversion Kit with a native 2Box hi-hat e-pad!
- Beware of attaching/mounting a 2box module directly to a hi-hat stand so it electrically could lead power from ATV hi-hat, through the hi-hat stand to the 2box module. This could result in trigger errors.
- Always upgrade to the latest 2box firmware/OS 1.32 for Three.
- The extra tight HH function which are part of the ATV aD-H14 performance is not natively supported by the 2box module – it can be adressed if the samples are adjusted using SDSE or similar tools.

RECOMMENDATIONS ON 2BOX HI-HAT SETTINGS (for DrumIt Three)

To find your best hi-hat settings on 2box is very much about to capture your own best preference and feeling. So the 2box settings could be tweaked in various ways. We would like to just share a good starting point of settings for your 2box using the Zourman conversion kit. This could of course be changed to better suite your playstyle or preference!

TYPE	XTALK	LEVEL	T
HIHAT	OFF		R
GAIN	THRES	CURVE	I
0	-40	Norm	G

CALIB	RAW	LEVEL	H
--	850		C
HTYP	POFF	FFACT	A
DEF	25624	166	L

HMPOS	SENS	CURVE	H
Off	-4	Ne92	S
			E
			T

GAINR	LXTR		S
Off	N/A		P
MASK			E
Off			C

2box hi-hat sample tweaking tip:

If you think the 2box hi-hat footchick samples has a too sharp cut when closing the hats - try adjusting the "hold" and "decay" paramater of the hi-hat sample. Just make some pedal chicks and dial it up until you are satisfied.

SOUND	LAYER	VOICE	E
+++	Var	POLY	N
ATTACK	HOLD	DECAY	V
0	.043	∞	

ATV aD-14H HI-HAT

Please check the ATV hi-hat manuals/documentation at www.atvcorporation.com for details. Adjust until you are satisfied with the relationship between the hi-hat's opening and closing action and the change in tone.

Please Note: This module will only work with 2Box DrumIt Three and ATV aD-H14. DrumIt Five will require a different conversion module. The Zourman Drums Conversion Module for Roland FD-7, FD-8, FD-9, VH-11, VH-12 or VH-13 hi-hats will not work with the ATV aD-H14.

MOUNTING THE HI-HAT KIT

Included in kit there is two tape pads which could be used to mount the hi-hat kit box on the side of the 2box module. There is also a mounting point (M6 nut) on top of the box using a camera mount or a standard cymbal mount.



Please secure the two hi-hat cables in place with the cable clip, (included) while leaving some slack in the cables. If not, the cables could start jumping and create false triggering or may interfere with the chick sound.

Support & Limited Warranty

Please submit any questions or suggestions via the <http://www.zourman.com> site or search for the zourman area at the <http://www.2box-forum.com>. The limited return to base warranty for all Zourman equipment is 12 months from purchase date. Note: A broken serial number seal on the kit's rear side will void warranty.

Links

<http://www.2box.se>
www.atvcorporation.com
<http://www.2box-forum.com>
<http://www.zourman.com>

digitalDrummer
www.digitaldrummermag.com

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More information

Website: <http://www.zourman.com> or

Email address: info@zourman.com

FB: <http://www.facebook.com/zourmandrums>

This manual can be downloaded from [zourman.com](http://www.zourman.com)