



## ZOURMAN CONVERSION KIT FOR ROLAND™ FD-7, -8, -9 & VH-11 HI-HATS & ddrum4™ SE MODULE

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

The ddrum4 SE module was very popular among e-drummers in the beginning of the 2000s, mostly for its real samples and fast triggering. The ddrum4 SE was introduced year 2001 as a follow up to ddrum4 by the Swedish company Clavia. SE stands for Signature Edition and included samples from Simon Phillips, Dennis Chambers, Kenny Aronoff and Mel Gaynor. And while the module is compatible with triggers from other manufacturers, users have largely been restricted to ddrum4 SE's proprietary hi-hat controller. This product from Zourman will enable ddrum4 SE owners to use existing non-ddrum4 SE hi-hats – particularly the popular Roland range. Our conversion kit combines the best of both worlds: the Roland FD-7, FD-8, FD-9 with a e-cymbal like CY-5 or the complete VH-11 hi-hat together with the ddrum4 SE module.

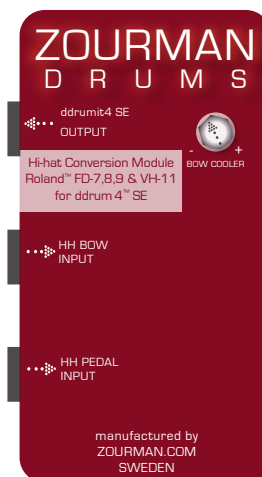
The Zourman hi-hat conversion kit replaces a standard ddrum4 SE hi-hat (hall effect sensor-based) with your favourite Roland hi-hat. The solution is 100% plug and play (only ddrum4 SE hi-hat calibration needed) and handles both a Roland hi-hat pad (bow - edge is not supported by ddrum4) and the hi-hat control pedal through the two input connectors. The Zourman electronics and intelligence combine the two trigger signals and deliver the output into a standard ddrum4 SE hi-hat input (single stereo jack).

The Zourman solution is the result of extensive research, development and rigorous testing with a range of equipment. The solution is also good complement as a replacement for broken ddrum4 SE hi-hats were it starts to be hard to find spareparts. To further enhance the playability and response, the bow sensor (piezo) may need to be "cooled down" slightly with a variable resistor – an additional feature built into the Zourman hi-hat conversion modules.

## SETUP AND CALIBRATING THE ROLAND HI-HAT WITH THE ddrum4 SE MODULE.

When you connect the hi-hat for the first time, you must perform a calibration. If the ddrum4 se module is not configured, a calibration of the hi-hat needed. The normal setup scenario:

1. Connect the Roland hi-hat to the Zourman device, plugging in stereo (TRS) cable for both the pedal and hi-hat pad.\*
2. Connect the Zourman device output to the ddrum4 SE module hi-hat input, using a stereo cable. (TRS)
3. Do the calibration on the ddrum4 SE module according to the ddrum4 SE manual - which can be downloaded on this [link](#)
  - Set the hi-hat clutch in default position by rotating the hi-hat screw - see chapter VH-11 in this manual.
  - Let the Hi-Hat clutch fall down on the Hi-Hat controller by its **own weight**.  
**Do not press or touch the hi-hat pedal or stand.**
  - Go to the System Trig input mode for channel 10. Set the setting to HHt.
  - Without touching the Hi-Hat stand, press SHIFT and EXIT. The display will shortly show CAL and the setting will be stored.
  - Secure the Hi-Hat clutch at a comfortable height for playing.
4. Ready! (Some adjustments can be done by twisting the hi-hat clutch - see later chapter in this manual)



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.

### General ddrum4 SE tweaking tip:

#### Threshold recommendations (Thres)

The threshold prohibits weak or atray trigger signals from triggering a channel. If e.g. your toms trigger the snare as well or if your monitor speakers are loud enough to actually trigger sounds, increase the threshold value on the channel that receives external triggering. The higher the threshold value, the less sensitive the channel becomes. Change the threshold value by turning the ROTARY DIAL.

Values: 1 - 100, for the Roland VH-11 and Zourman Drums Conversion Module we recommend using 15 as default value.

#### Dynamics Recommendations (DYN)

This function lets you adjust the dynamics response curve for each channel. The number indicates one of the dynamic response curves. The default value is 0, which is a linear type of curve. By turning the ROTARY DIAL counter-clockwise, a negative number appears, indicating that medium-soft to medium-hard hits will be less pronounced. If you turn the ROTARY DIAL all the way back, the DISPLAY will show 'OFF', meaning the dynamics response curve is totally deactivated. In 'OFF' mode, all sounds appear at 75% velocity level regardless how hard or soft you play. This could be useful if you want your playing to sound static. Turning the ROTARY DIAL clockwise will select the positive curves, where medium-soft to medium-hard hits will be more pronounced (see the figure below). For the Roland VH-11 and Zourman Drums Conversion Module we recommend setting DYN to 0.

### Some notes:

- The Zourman Drums hi-hat Conversion for ddrum4 SE will also work for ddrum4.
- Please note that a wrongly connected cable could seriously damage your ddrum4 SE module.
- Always upgrade to the latest ddrum4 se firmware [1.54] before entering any setup process to avoid strange behaviour and also utilize the latest functionality. The current firmware can always be found on ebay and other sites.

## RECOMMENDATIONS ON ddrum4 SE HI-HAT SETTINGS

To find your best hi-hat settings on ddrum4 se is very much about to capture your own best preference and feeling. So the ddrum4 se settings could be tweaked in various ways. We would like to just share a good starting point of settings for your ddrum4 se using the Zourman conversion module. This could of course be changed to better suite your playstyle or preference!

### ROLAND FD-7, 8 or 9 HI-HAT

Please check the FD-8 manual documentation at roland.com. If experincing problems to get the hi-hat to close all the way after calibration, (the FD-8 could be a little inconsistent at the end of its stroke - pedal down) If so recalibrated the module again, but lift the foot very tiny amount from fully bottomed, about 1/8" or less at the front of the pedal during calibration in the closed position. The Zourman Conversion Module has successfully been tested with FD-7, FD-8, FD-9 and CY-5 e-PAD. This model also work for Roland compatible hi-hats like JOBEKY 13, 14" REAL FEEL CYMBAL AND HI-HAT CONTROLLER, Go Edrum GH6 eHi-Hat and Hart ECS-HH 12.

### ROLAND VH-11 HI-HAT

Please check the Roland hi-hat manuals/documentation at roland.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.

- Check the manual if the hi-hat pedal feeling sound is difficult to attain - by rotating the screws on the hi-hat from closed to open. A good starting point is about two turns (720 degrees) from 100% closed position and turn it to open. To make the hi-hat to get a more smooth and longer halfopen etc...rotate the hh screw towards open about a quarter to a half turn.
- If you get double triggering when doing chicks with the hi-hat pedal - try to rotate the VH-11 pedal unit a half turn.

## THE BOW (PIEZO) ADJUSTMENTS for Roland Hi-hats.

The piezo cooler on the Zourman is simply an adjuster that makes it possible to adjust the intensity of the signal sent from the hi-hat bow sensor. It is added because some e-cymbals are "hotter" than others. The Roland hi-hats, in general, need to be cooled down. Twisting the knob towards "+". The recommended value is about 50-60%, e.g. about 60K Ohm for a Roland VH11/FD-8/CY-5. The adjustment is only necessary if your e-cymbal PAD peaks out (seen on ddrum4 se module in the unit mode) the velocity meter when the sensitivity is set to 0 on the module. This adjustment may not be necessary, depending on the e-cymbal type. Note: There is a correlation between the piezo cooler and how hard/easy you are able to make a hi-hat chick. A too high cooler value will impact the chick. You'll know when it feels right!

## MOUNTING THE HI-HAT CONVERSION MODULE

Included in kit there is two tape pads which could be used to mount the hi-hat kit box on the side of the ddrum4 se 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. The limited return to base warranty for all Zourman equipment is 12 months from purchase date. Note: A broken serial number seal on the module's rear side will void warranty. **Note:** Roland VH-12 & VH-13 will not work with the FD-7, 8, 9 and VH-11 version of Zourman Conversion Module.

## Links

<http://unofficially-ddrum.proboards.com/>

<http://www.roland.com>

<http://www.zourman.com>

digitalDrummer  
[www.digitaldrummermag.com](http://www.digitaldrummermag.com)

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## Credits

Bengt Hovgard (My old nice friend - supplier of the ddrum4 SE module - BIG THANKS!), My dad Kaj Grönlund, Rik van der Bruggen for encouraging mails, The sound pro Jouni Niemi for great support and all nice customers, especially Robert Waters sharing great ideas like building a hi-hat conversion module for ddrum. :-)

## More information

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

Email address: [info@zourman.com](mailto:info@zourman.com)

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

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