



ZOURMAN CONVERSION KIT FOR ROLAND™ FD-7, -8, -9 & VH-11 HI-HATS & ddrum™ 4 SE MODULE

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

The ddrum 4 SE module was very popular among e-drummers in the beginning of the 2000s, mostly for its real samples and fast triggering. And while the module is compatible with triggers from other manufacturers, users have largely been restricted to ddrum 4 SE's proprietary hi-hat controller. This product from Zourman will enable ddrum 4 SE owners to use existing non-ddrum 4 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 or VH-11 hi-hat's together with the ddrum 4 SE module.

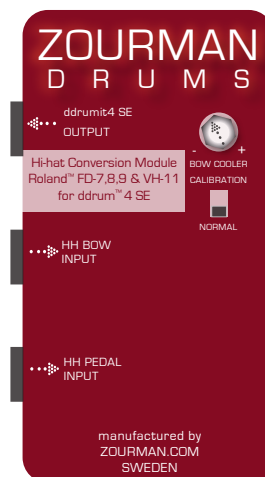
The Zourman hi-hat conversion kit replaces a standard ddrum 4 SE hi-hat (hall effect sensor-based) with your favourite Roland hi-hat. The solution is 100% plug and play (only ddrum 4 SE hi-hat calibration needed) and handles both a Roland hi-hat pad (bow - edge is not supported by ddrum 4) and the hi-hat control pedal through the two input connectors. The Zourman electronics and intelligence combine the two trigger signals and deliver the output into a standard ddrum 4 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 ddrum 4 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 ddrum 4 SE MODULE.

When you connect the hi-hat for the first time, you must perform a calibration. If the ddrum 4 se module is not configured, a calibration of the hi-hat needed. The normal setup scenario:

1. Connect the Roland hi-hat gears 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 ddrum 4 SE module hi-hat input, using a stereo cable. (TRS)
3. Set the Zourman device to “calibration” mode using the switch on the front panel.
4. Do the calibration on the ddrum 4 SE module according to the ddrum 4 SE manual (page 51).
 - Let the Hi-Hat clutch fall down on the Hi-Hat controller by its own weight.
 - 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.
5. Lastly, set the Zourman module calibration switch back to “normal”.
6. Ready!



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 ddrum 4 SE tweaking tip:

This tip works on both ddrum 4 se original hi-hat and a hi-hat using the Zourman interface: After doing the calibration: Take your foot off the pedal and the HH cymbal in the open spot; Hold onto the HH rod, and loosen the clutch nut, being sure the clutch and cymbal do not move while loosening. Then raise the HH cymbal/clutch position, about a quarter or half inch. Tighten that clutch nut with the cymbal slightly higher like that after calibration. It make the HH work much smoother/natural and HH foot splashes and foot chicks smoother too.

Another way to tweak this on VH-11 is by rotating the hi-hat screw. See chapter VH-11 in this manual.

- Please note that a wrongly connected cable could seriously damage your ddrum 4 SE module.
- Beware of attaching/mounting a ddrum 4 SE module directly to the hi-hat stand so it electrically could lead power from a Roland hi-hat, through the hi-hat stand to the ddrum 4 SE module. This could result in trigger errors.
- Always upgrade to the latest ddrum 4 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 ddrum 4 SE HI-HAT SETTINGS

To find your best hi-hat settings on ddrum 4 se is very much about to capture your own best preference and feeling. So the ddrum 4 se settings could be tweaked in various ways. We would like to just share a good starting point of settings for your ddrum 4 se using the Zourman conversion kit. 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 closed 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 60%, e.g. about 30K Ohm for a Roland VH11/FD-8/CY-5. The adjustment is only necessary if your e-cymbal PAD peaks out (seen on ddrum 4 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 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 ddrum 4 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://www.ddrum4se.se>

<http://www.roland.com>

<http://www.zourman.com>

digitalDrummer
www.digitaldrummermag.com

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Credits

Bengt Hovgard, Kaj Grönlund, Rik van der Brygghen & Jouni Niemi for great support and all nice customers sharing great ideas like building a conversion module for ddrum. :-)

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)