ZOURMAN
D R U M S

2BOX DrumIt Five
OUTPUT

3 Zone Ride Conversion
module for Roland™ CY-13R
/15R & 2box™ DrumIt Five

BOW/BELL
COOLER
- +

CY-13R or CY-15R
BOW/BELL INPUT

CY-13R or CY-15R

ZOURMAN DRUMS 3 ZONE RIDE CONVERSION MODULE FOR ROLAND™ CY-13R & CY-15R RIDE & 2BOX™ DRUMIT FIVE MODULE

We'd first like to take a moment and thank you for purchasing a Zourman Drums 3 zone ride 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 3 zone ride cymbals. This product from Zourman Drums will enable 2box owners to use existing non-2box 3 zone rides – particularly the popular Roland range. Our conversion modules combines the best of both worlds: the Roland CY-13R and CY-15R rides together with the 2box module.
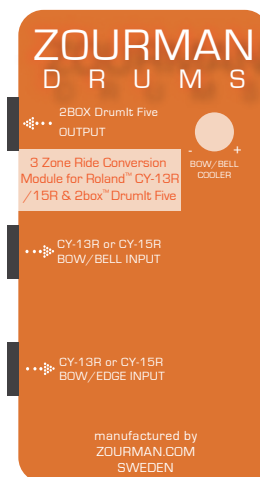
The Zourman 3 zone ride conversion module replaces a standard 2box ride cymbal with your favourite Roland 3 zone ride. The solution is 100% plug and play (only 2box settings needed to be changed) and handles both outputs (bow/edge & bow/bell) on the Roland CY-13R and CY-15R through the two input connectors found on the conversion module. The Zourman Drums electronics and intelligence combine the three+choke trigger signals and deliver the output into a standard 2box 3 zone input (single stereo jack). Up to three conversion modules can be used at the same time for 2box cymbal inputs.

The Zourman solution is the result of extensive research, development and rigorous testing with a range of equipment. Our testing has found that Roland 3 zone rides are very similar to 2box cymbals in response, but more reliable with better bell trigger response: a hard hit on the bow won't trigger a bell sound and will, therefore, result in a more realistic drum feeling. To further enhance the playability and response, the bow/bell balance can be "adjusted" slightly with a variable resistor – an additional feature built into the Zourman ride conversion kit.

THE CHALLENGE OF EMULATING A 3 ZONE 2BOX CYMBAL WITH A ROLAND CY-15R

This solution makes a Roland CY-13R & CY-15R (3 Zones + choke) compatible with a 2box DrumIt Five module - one of the last 2box Drumit five challenges. The reason for the incompatibility is that a 2box cymbal separates a bell hit from a bow hit based on the amplitude of the hit. A bell hit will generate around 12db higher signal compared to a bow hit on 2box. This scenario is possible because the piezo on a 2box cymbal is placed in bell. However, a Roland e-cymbal has the piezo trigger placed in the bow. So a bow hit on a Roland cymbal will always generate a higher signal than bell hit.

The challenge with the Zourman Drums Conversion module was to make a Roland CY-13R & CY-15R do the opposite when hitting the bell and, through this, to emulate a 2box 3 zone cymbal - by damping the piezo signal for bow hits and leaving the bell signal untouched when hitting the bell! This is what the 3 zone conversion module does, besides combining the four different signals from a Roland e-cymbal.

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Module for Roland™ CY-13R
/15R & 2box™ DrumIt Five

CY-13R or CY-15R
BOW/BELL INPUT

CY-13R or CY-15R
BOW/EDGE INPUT

manufactured by
ZOURMAN.COM
SWEDEN

GENERAL 2BOX MODULE NOTES.

Always upgrade to the latest 2box firmware/OS. [1.3.03] before entering any setup process to avoid strange behaviour and also utilize the latest functionality. The current firmware can always be found 2box.se website. If you face problems, a common recommendation is to start with a fresh Drumit.dkt file. It can be downloaded here – and don't forget to backup your existing file on the module.

```
TYPE  XTALK LEVEL   T        SOUND LAYER VOICE   E
Cym14  Low           R         +++    VAR   POLY   N
GAIN  THRES CURVE   I        ATTACK HOLD DECAY   V
 7M    -36   Norm    G          0      0     ...
```

SETUP THE ROLAND 3 ZONE WITH THE 2BOX MODULE.

When you connect the ride for the first time, you must change some parameters in the 2box module. The normal setup scenario:

- Connect the Roland ride to the Zourman device, plugging in two stereo (TRS) cables for the bow/bell and bow/edge on the CY-13R & CY-15R to the BOW/EDGE and BOW/BELL inputs on the conversion module.
- Set your 2box module to UNIT mode.
- Hit your CY-13R & CY-15R to make the 2box module bring up the right settings for the input.
- See the display screenshot for above default settings - as a good starting point. A Roland CY-13R & CY-15R together with the Zourman Drums 3 zone ride conversion module will emulate a 2box 3 zone 14" ride. A recommendation for THRES is **36** for CY-13R and **32** for CY-15R.

Please make sure that a 3 zone ride sound has been assigned for the actual 2box input. See picture above - a +++ indicates that a 3 zone sound has been assigned.

GENERAL 2BOX RECOMMENDATIONS FOR CY-13R/CY-13R & CY-15R:

Finding your best 3 zone settings on the 2box will allow to capture your own preference and feeling. So, the 2box settings can 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 suit your playin style or preference!

The BOW/BELL adjuster on the module can be used to reduce the direct bow piezo signal in favour of the bell switch signal. The GAIN setting will affect how easily the bell will trigger. A higher GAIN value will increase bell triggering.

The display will show a "1" when the bell triggers, "4" when bow triggers, "8" when the edge triggers and a "9" when choking. An excessive GAIN value will trigger the bell when hitting on the bow. Try to lower the GAIN whe hitting the bow and listen until the bell sound stops. That will be the ideal setting. Sometimes, lowering the THREShold can also impact the bow/bell triggering. By pressing the DATA knob, you can select between the GAIN Values of L, M, H. Our tests have shown that the M setting seems to work best with CY-13R & CY-15R.

You'll know when it feels right!

Notes:
- Please note that a wrongly connected cable could seriously damage your 2box module.
- DO NOT use the Zourman Drums 3 Zone Ride Conversion Kit with a native 2Box cymbal e-pad!
- Please select 3 zone ride sounds if using a three zone trigger.

MOUNTING THE 3 ZONE RIDE CONVERSION MODULE

Included in kit there is two tape pads which could be used to mount the 3 zone ride conversion module 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.

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.zourman.com
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http://www.roland.com
http://www.2box-forum.com
http://www.digitaldrummermag.com

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Zourman Drums Friends
Kaj Grönlund / Dad

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This manual can be downloaded from zourman.com