

MAGNATRACK®

DRUM AND CYMBAL TRIGGERS

LOW VOLUME CYMBAL TRIGGERS



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MAGNATRACK
DRUM TRIGGERS

User Manual
2019



LVCT™

THE ORIGINAL LOW VOLUME
CYMBAL TRIGGER BY MAGNATRACK
IS UNRIVALED IN THE INDUSTRY.
PROPRIETARY
FEATURES MAKE THE LVCT THE BEST
SELLING CYMBAL TRIGGER IN THE
WORLD.

MAGNATRACK
DRUM AND CYMBAL TRIGGERS

**LIMITED 1 YEAR
WARRANTY**

LVCT™



Rare Earth Dynamics Corp. will repair or replace this product at no charge to the purchaser for parts or for labor if the fault is reported within the warranty period. This warranty does not apply to damage that occurred as a result of abuse or misuse, abnormal service or handling, damage which may have been caused either directly or indirectly by another product, or if the product has been altered or modified in any way, or if the damage was caused by repairs or service provided or attempted by anyone other than **Rare Earth Dynamics Corp.**, or a **Rare Earth Dynamics Corp** Authorized service center. ***Any attempt to dismantle or repair a product without authorization from Rare Earth Dynamics will immediately void any existing warranty for that product.** This warranty does not include or provide for incidental or consequential damages.

Thank you for choosing MAGNATRACK. Our company is comprised of drummers that have extensive backgrounds in electronic drums and obsess over bringing you, the artist, the ability to forget about triggering altogether. We strive every day to forever blur the lines between acoustic and electronic percussion.

All product names, logos, and brands are property of their respective owners. All company, product and service names used in this manual are for identification purposes only. Use of these names, logos, and brands does not imply endorsement.

THE
FUTURE OF
ELECTRONIC
DRUMS IS
ACOUSTIC

The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

LINKS TO INSTALLATIONS IN THIS MANUAL



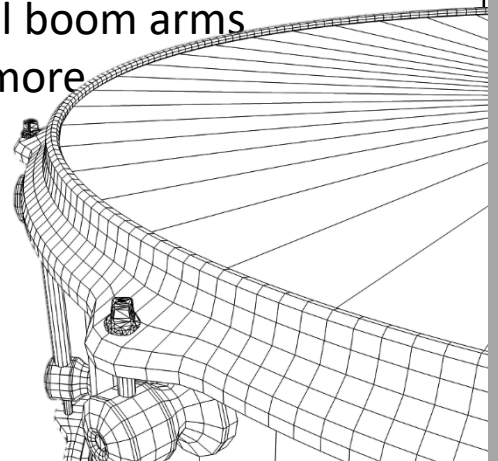
Getting Started

“The Future of Electronic Drums is Acoustic”

MAGNATRACK'S approach to electronic drums is unlike the rest of the industry. We want to embrace as much of the acoustic kit as possible in its purist form. For most drummers that “form” looks and feels like the acoustic kit they already own. What we can achieve with our triggers and your existing drum kit is unparalleled. Not just in performance and cost, but future thinking that’s deeply rooted in the traditional drum set. It’s the essence of this approach that makes the next part potentially the most crucial when trying to blur the lines between electronic and acoustic drums. Our mission is more than just converting your acoustic drum kit out of convenience, or to save a few bucks. We believe we can convert your kit without compromise. A kit free from any distraction that prevents you from being in the moment, as an artist, completely immersed in rhythm you create. ****groove as directed***

Kit Maintenance

Proper kit maintenance can be the difference between triggering that is responsive, accurate, and captures the subtle nuances that comprise your style, or drive you to the point of madness. Everything on your kit counts in large amounts! Poorly maintained hardware can wreak havoc on your triggers performance. You should approach your kit as if you were about to record in the studio. Proper spacing between stands, tight cymbal boom arms free of wobble, and cymbal felts in good condition are more relevant to preventing unwanted triggering results than you might think. More advanced considerations include installing mesh heads with a gauge just as you would with acoustic heads to ensure even tension across the drum head. There are many tips and tricks we dive into on our site. For now just remember ***It all counts!***



RARE EARTH DYNAMICS IS NOT LIABLE FOR ANY INJURY TO SELF OR DAMAGE TO ANY EQUIPMENT. USE PRODUCT AT OWN RISK AND PLEASE FOLLOW DIRECTIONS AS DESCRIBED. AT NO TIME ATTEMPT TO DISMANTLE OR AUGMENT ANY PRODUCT OR PART.

Contents of Pack

Low Volume Cymbal Trigger: 5 ea.



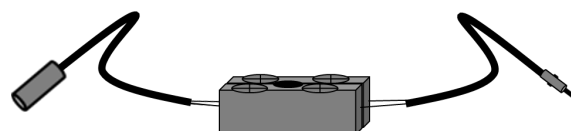
Adapter Cable: 5 ea.
(1/8TH INCH TRS – 1/4 INCH TRS.)



Foam Mutes: 4 ea.



No Drill Wiring Kit



Dual Zone Splitter Box



Velcro Cable Ties



PACK CONTENTS

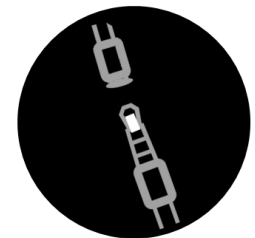
Tools Needed

Substitutions may lead to trigger damage. Only use tools described.

- 1/4" box wrench or socket and driver
- Standard Philips head screwdriver
- Standard drum key

Getting Started

HI-HAT INSTALLATION



WIRING



FOAM
INSTALLATION



TRIGGER
LOCATION

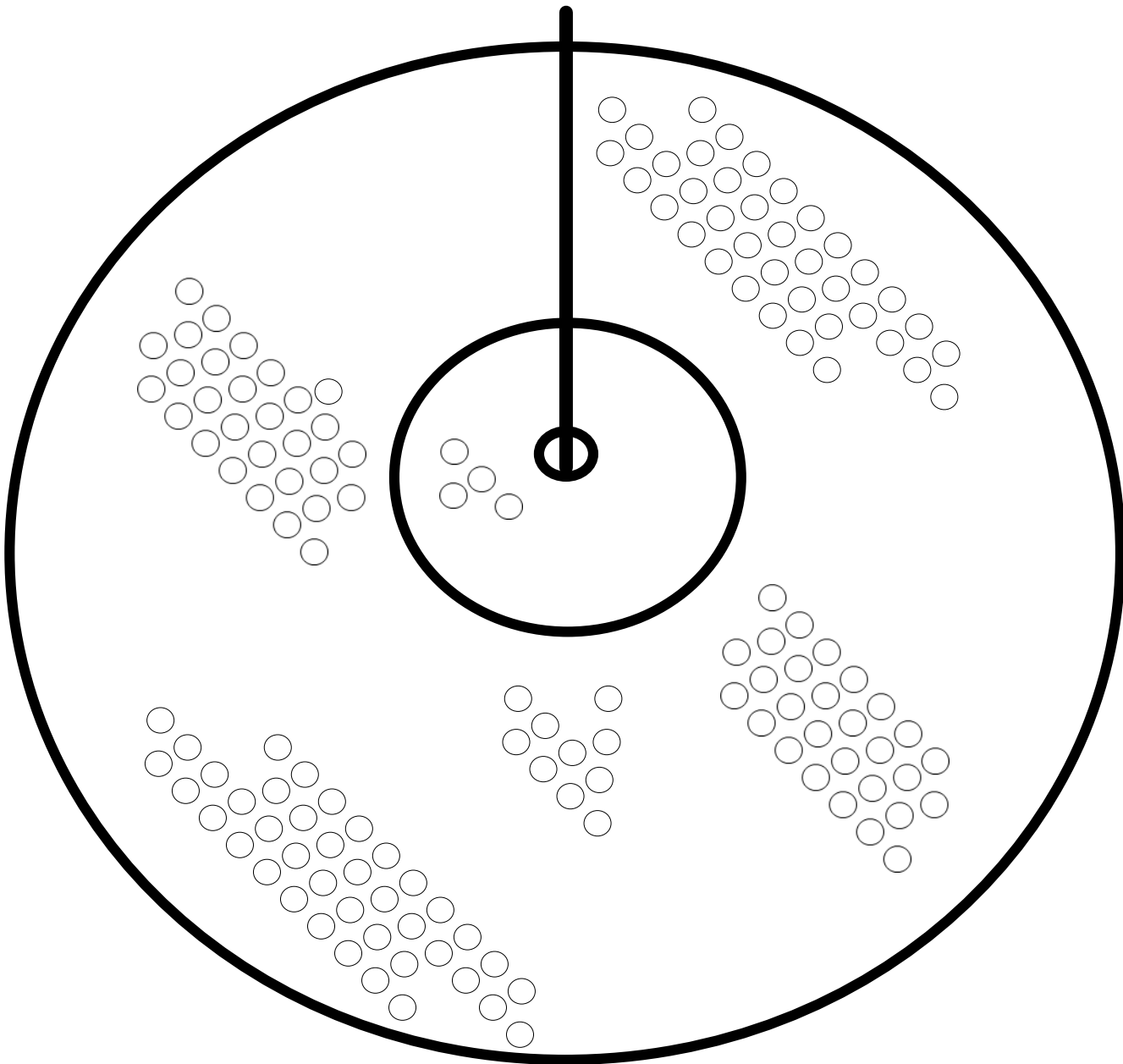


TRIGGER
INSTALLATION

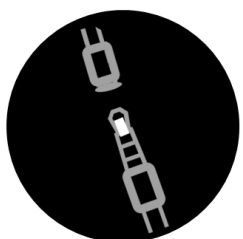
Mounting Wiring Block

HI-HAT INSTALLATION

PLACE THE BOTTOM HI-HAT ON THE STAND



BOTTOM HAT



WIRING

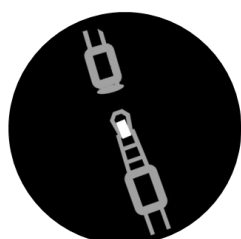
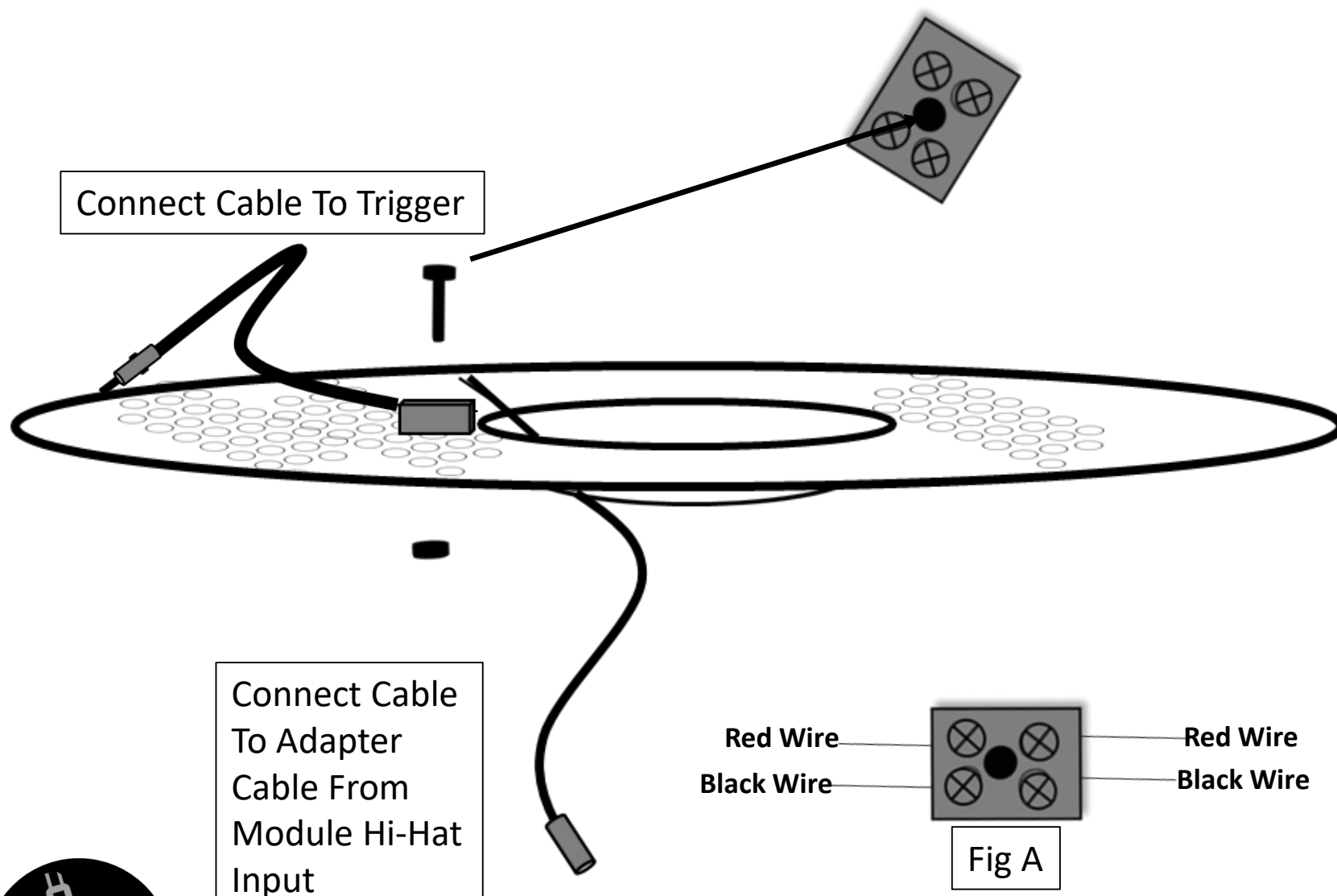
Mounting Wiring Block

Tools Needed

- 1/4" box wrench or socket and driver
- Standard Philips head screwdriver

No Drill Wiring Block

- Mount the block near the edge of the bell of the bottom Hi-Hat
- Route the female cable's bare ends through a single hole near block from below
- Insert the bare wires into the block matching wires on corresponding side (Shown below in Fig A)



WIRING

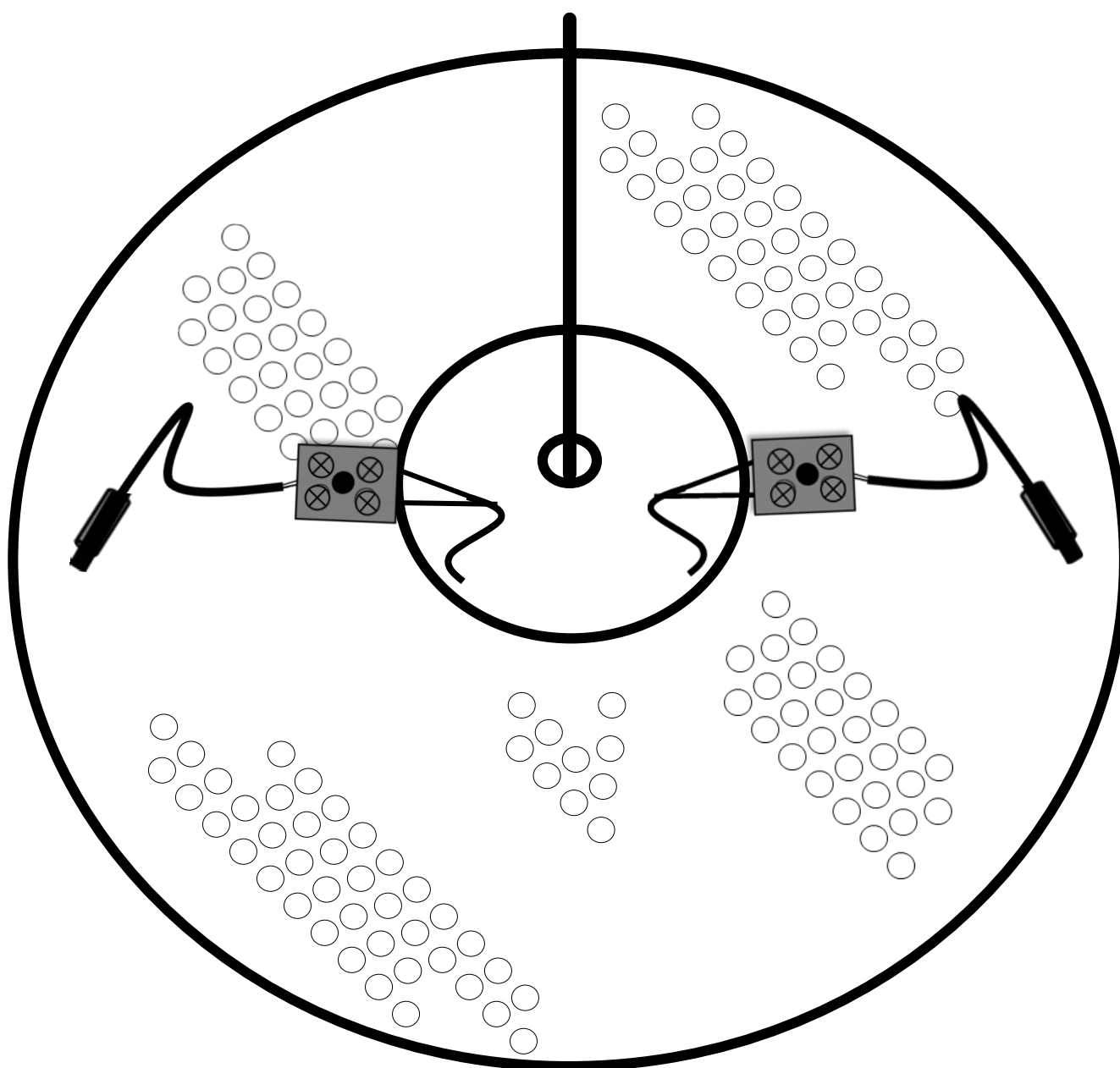
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Mounting Wiring Block

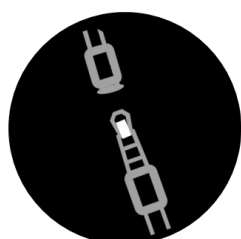
For Dual Zone Hi Hat:

You can repeat wiring block installation by moving second block to opposite side of bell.

***NOT INCLUDED IN STANDARD PACK**



BOTTOM HAT

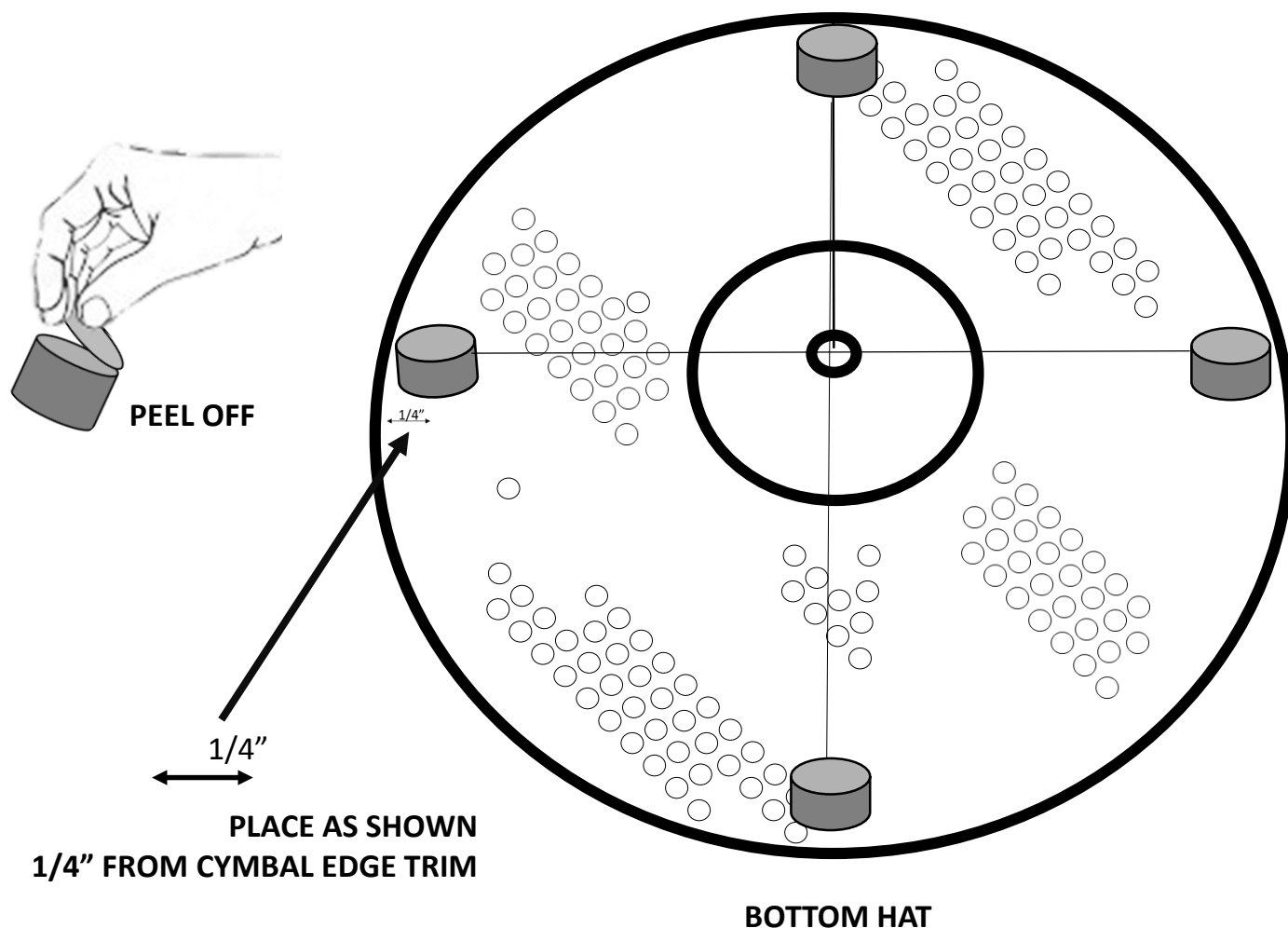


WIRING

Hi-Hats (Bottom Hat)

Foam Mute Installation:

The foam mutes allow the top and bottom hat to be played traditionally by preventing unwanted triggering when the two cymbal come in contact with one another. This is only necessary when using a traditional Hi-Hat stand that allows both top and bottom hats. For an example of what's needed to take advantage of this method check out the Hi-Hat demo video linked on page 2. However, if you have a separate pedal included with your module you can enjoy the feel of playing both hats without the physical open and close movement that follows the articulations.



WHEN PLACING THE FOAM MUTES
USE A TAPE MEASURE TO

ENSURE EQUAL DISTANCE FROM CYMBAL EDGE.

1/2" OFF CYMBAL EDGE OR 1/4" OFF TRIM



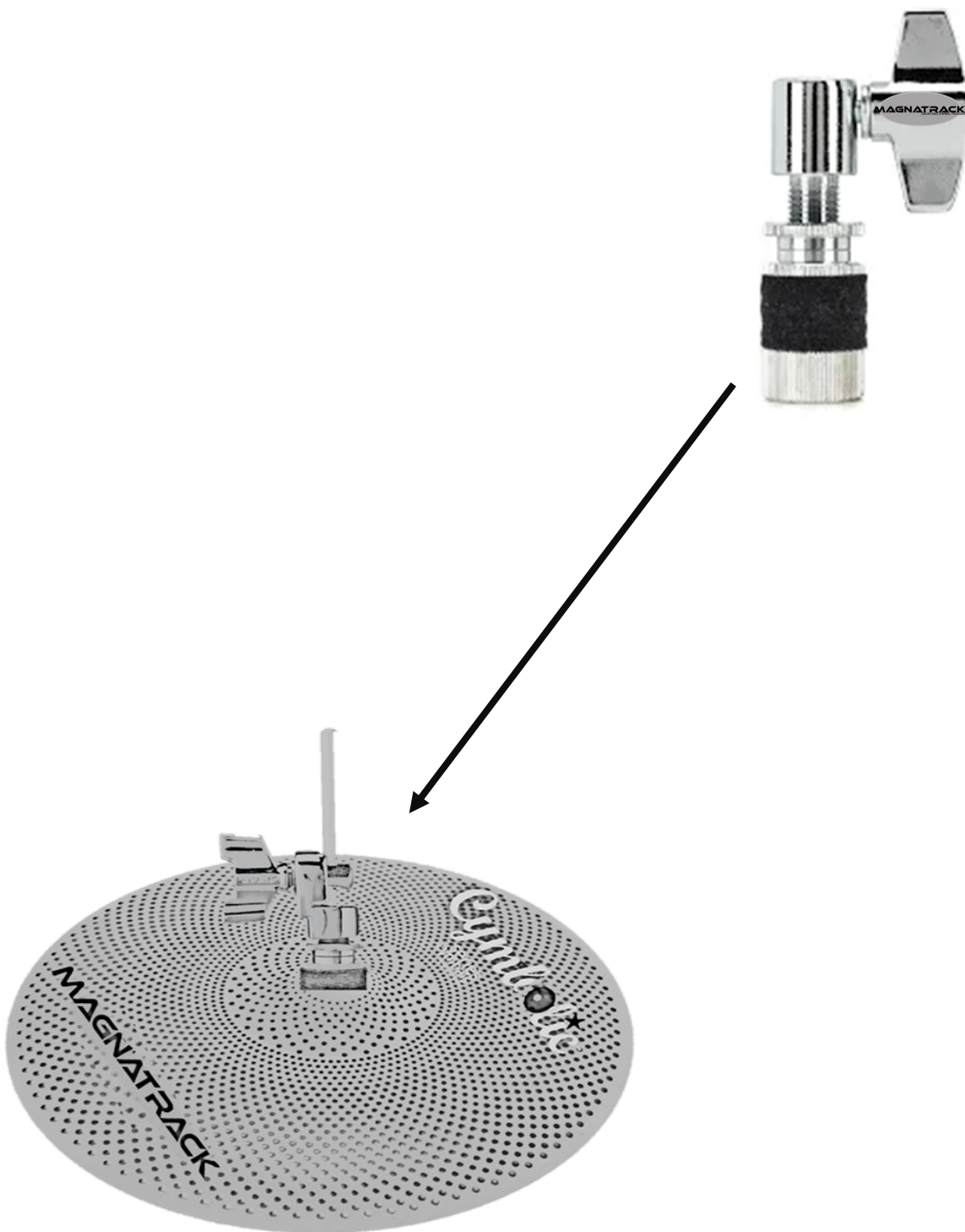
FOAM
INSTALLATION

Install Hi-Hat Hardware (Top Hat)

HI-HAT INSTALLATION

Top Hat Install:

Install your hi-hat clutch to the top hi-hat cymbal.



Trigger Location

Top Hat Install:

Mount the top hat onto the stand. Tighten clutch so it leaves enough room to access the underneath side of the top hat.



TRIGGER
LOCATION

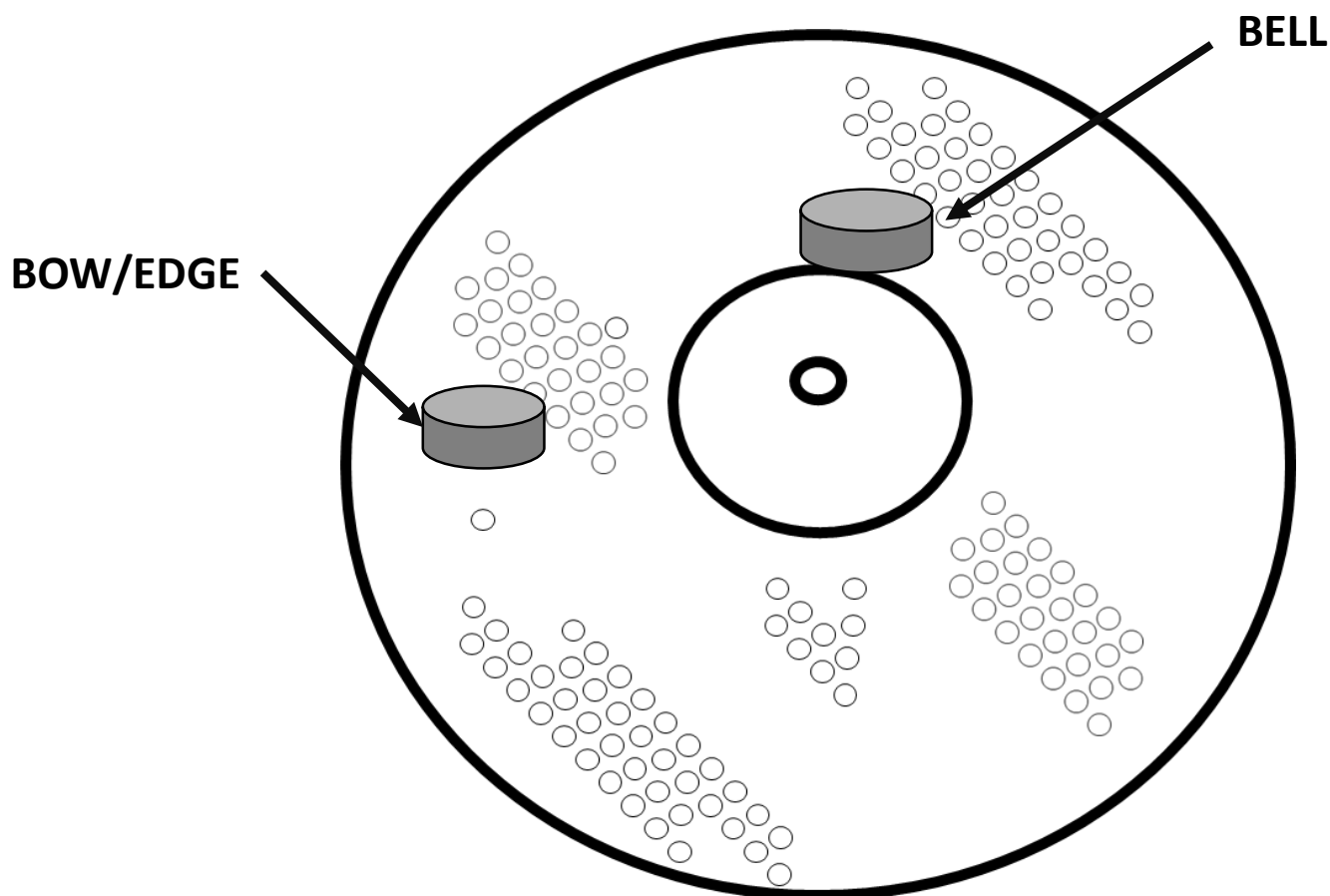
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DRUM AND CYMBAL TRIGGERS

Trigger Location

Most triggers require it to be located directly under the strike area causing a lack of true velocity and accelerated wear.

MAGNATRACK'S Cymbal Triggers are designed with Proximity Detection Technology which provides accurate capture of your playing style without having to play on top of the trigger.

As shown in the diagram below this allows you to easily create and dial in your zones with just an increase in one triggers sensitivity and lower threshold while applying the opposite settings to other trigger.



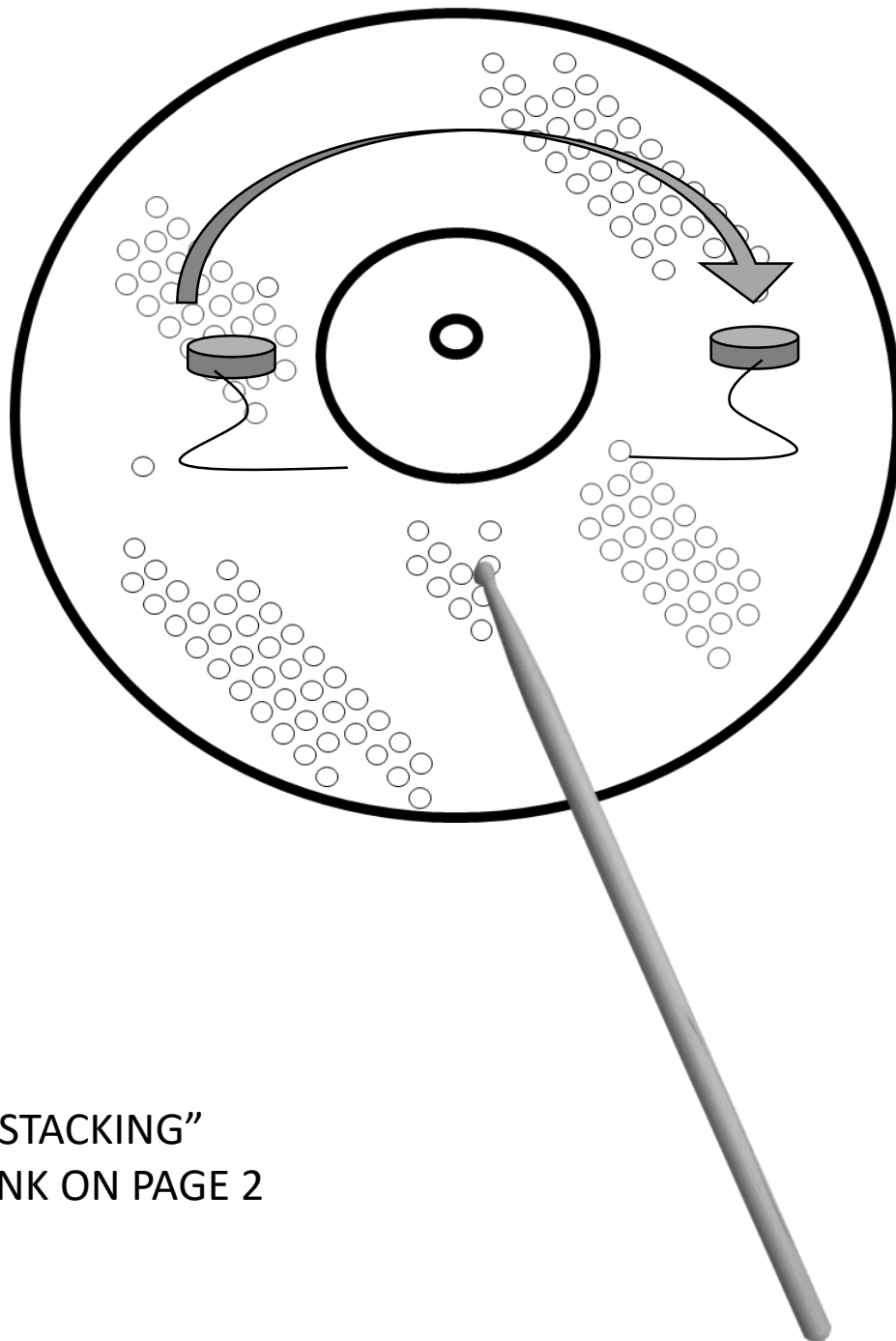
TRIGGER
LOCATION

Trigger Location

HI-HAT INSTALLATION

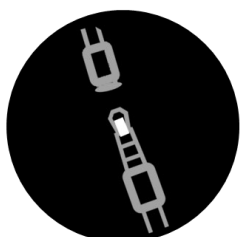
SINGLE ZONE HI-HAT

You can get optimal results with the triggers placed on either side of the hi-hat bell. By experimenting with different locations, you can capture fine nuances, as well as, eliminate any dead spots, or double triggering.



IN THE KNOW

TO LEARN ABOUT "ZONE STACKING"
CHECKOUT OUR VIDEO LINK ON PAGE 2

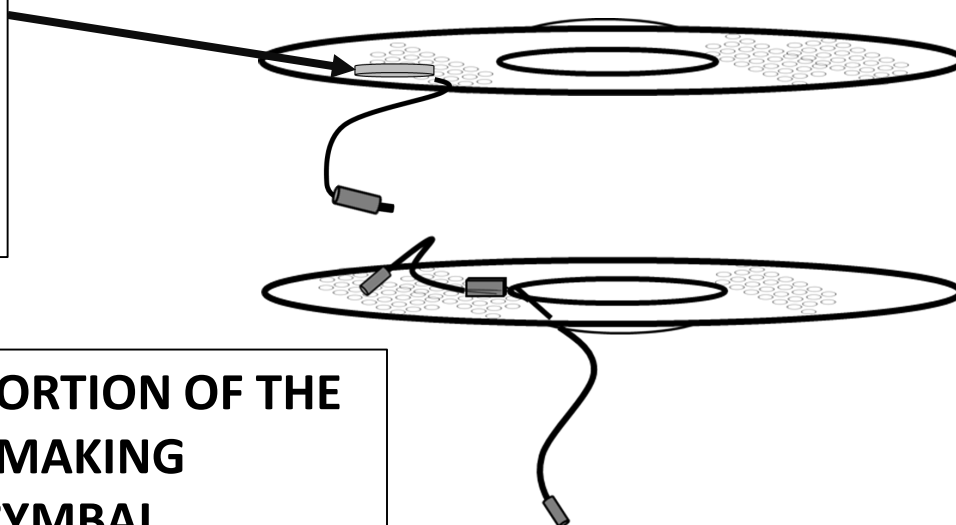


WIRING

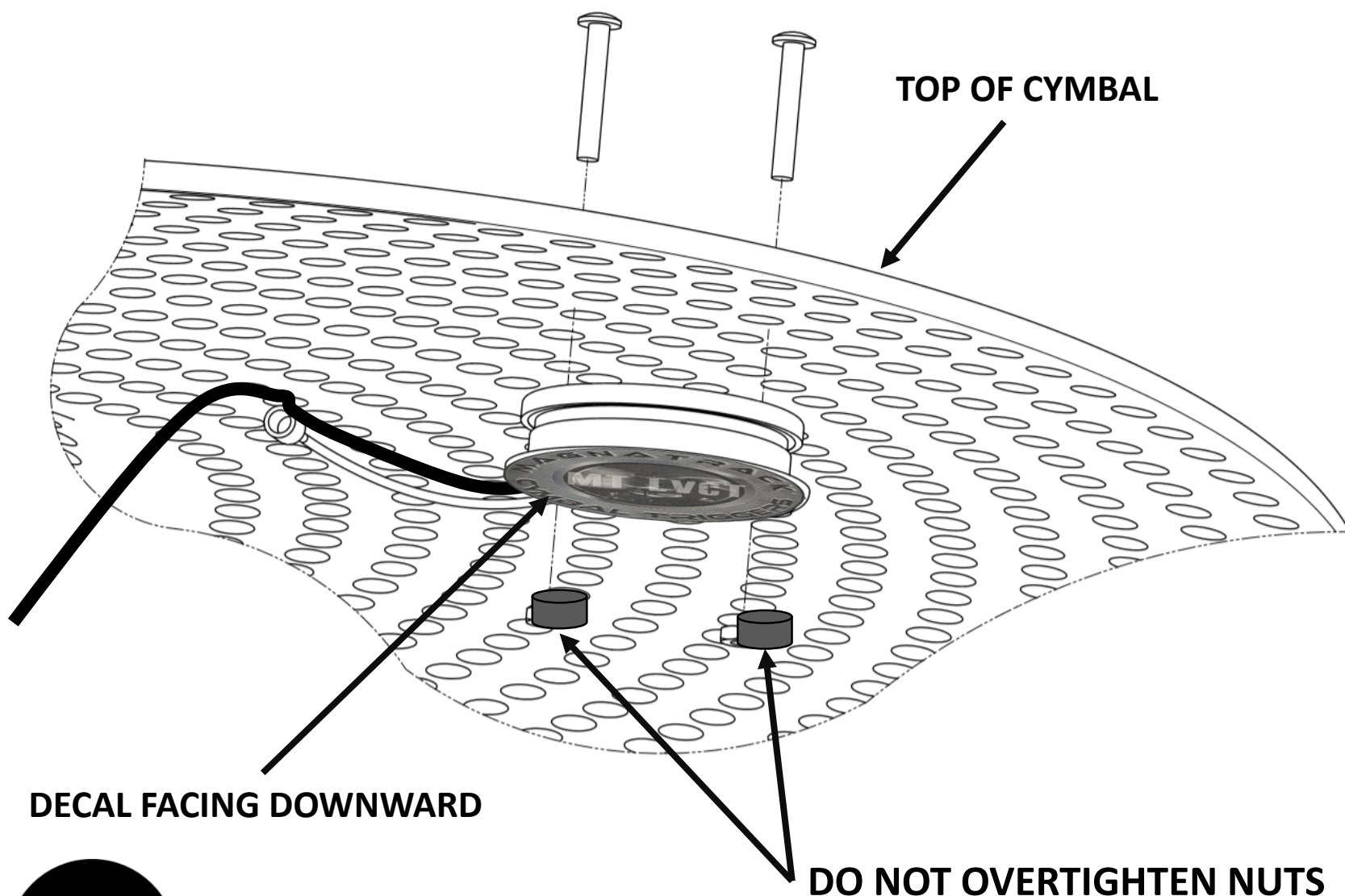
Trigger Mounting

HI-HAT INSTALLATION

ALL HI-HAT TRIGGERS GET MOUNTED TO BOTTOM SIDE OF THE TOP HI-HAT



THE BLACK RUBBER PORTION OF THE TRIGGER SHOULD BE MAKING CONTACT WITH THE CYMBAL

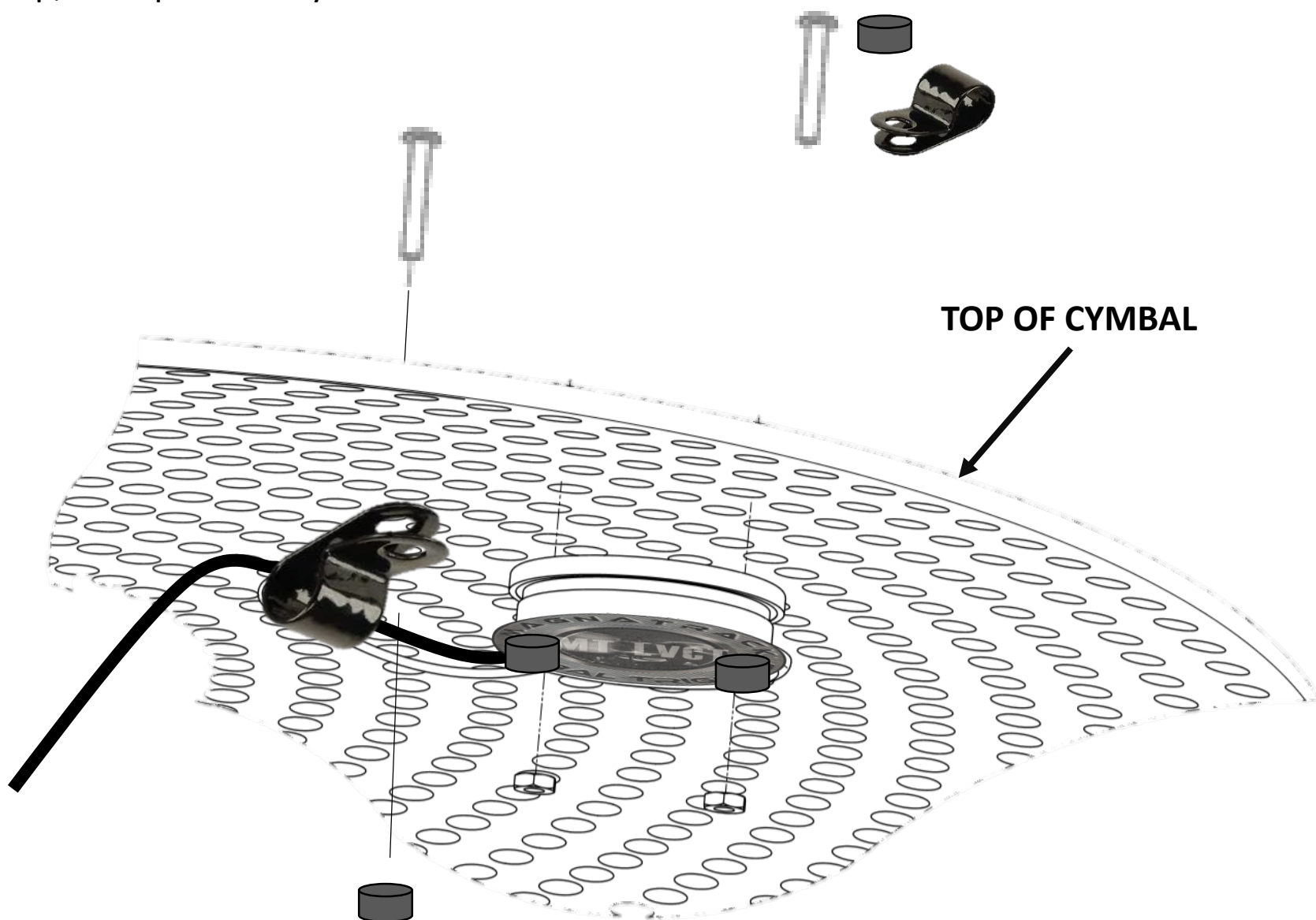


TRIGGER
INSTALLATION

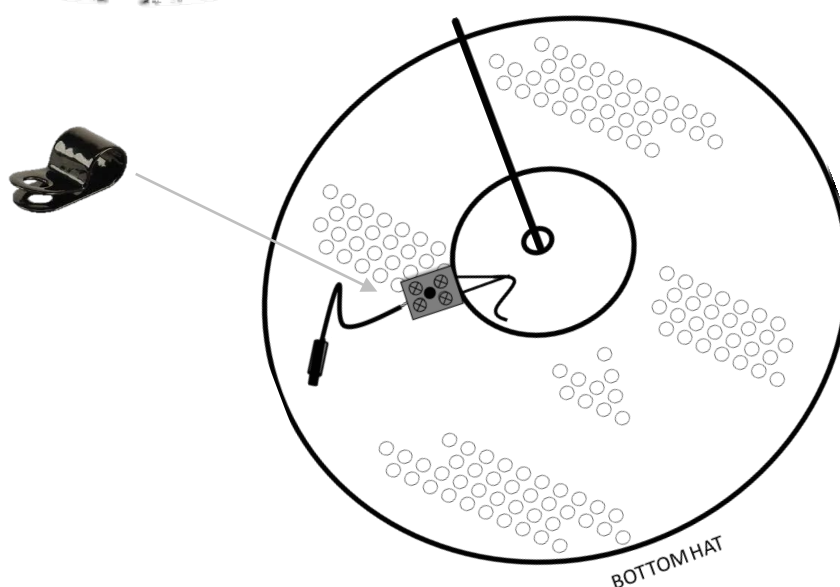
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DRUM AND CYMBAL TRIGGERS

Trigger Mounting

Secure the cable of the trigger using the 1/8" "P" clip. Use a nut and bolt to secure. Bolt goes down through top cymbal with head of facing up, on top side of cymbal.



Repeat this process to secure cable on the bottom hat. Ensure to leave enough length for connection of the make cable to reach trigger while hi-hats are open.



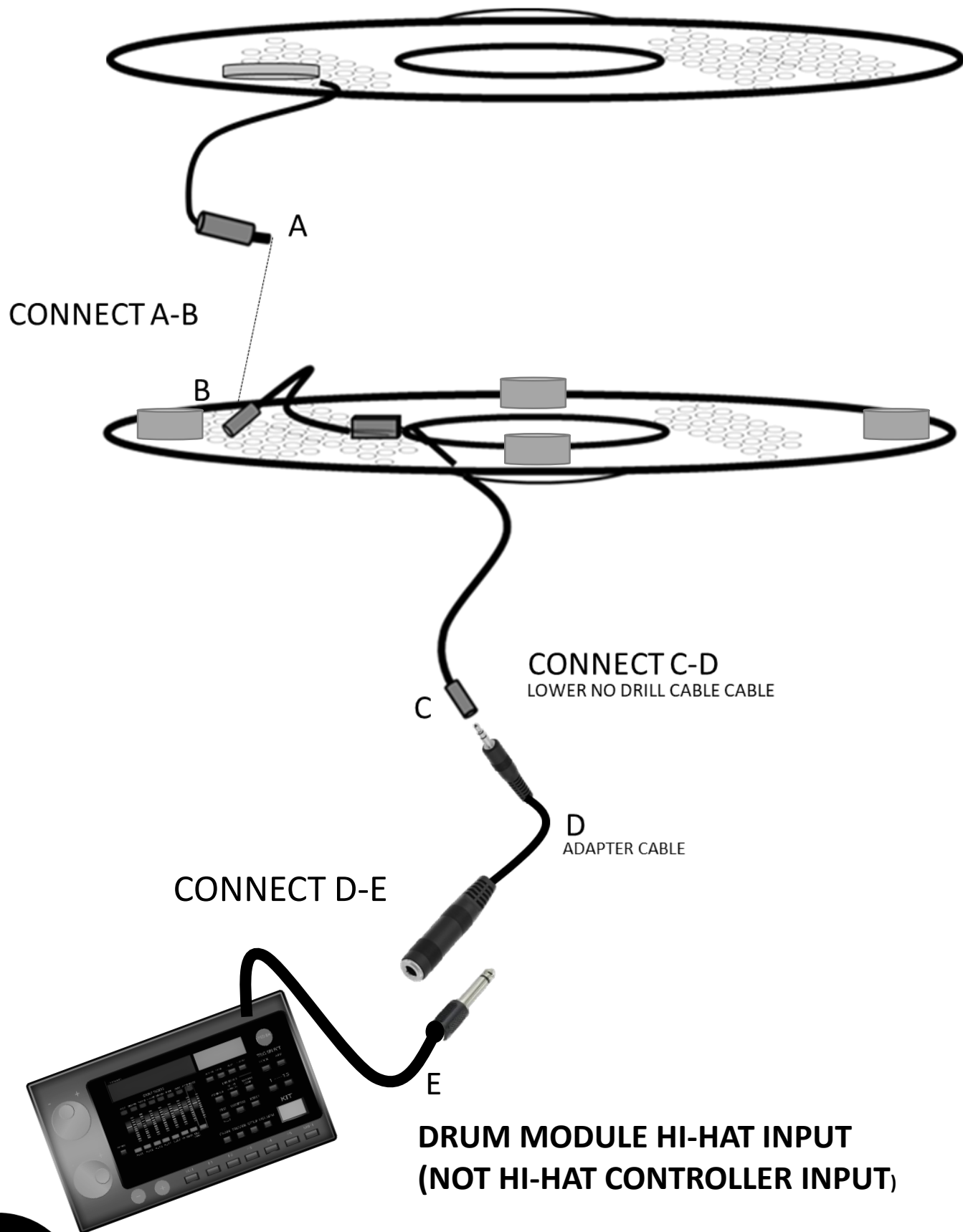
TRIGGER
INSTALLATION

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Final Connections

COMPLETE CABLE CONNECTIONS AS SHOWN

HI-HAT INSTALLATION



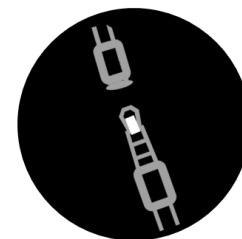
WIRING

MAGNATRACK®
DRUM AND CYMBAL TRIGGERS

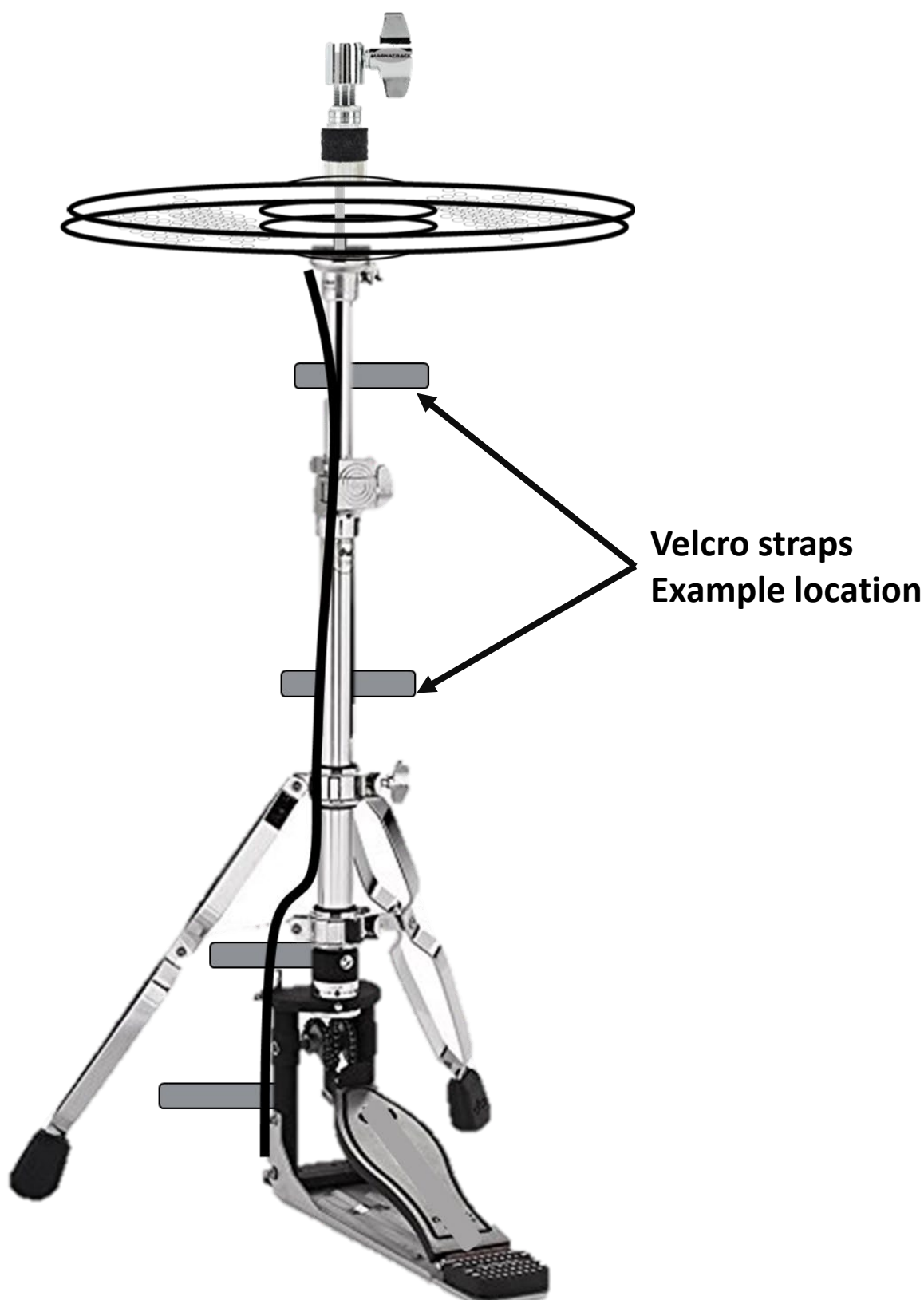
Cable Management

Securing Cables:

Secure the cables, starting at the top of the hi-hat stand, using the provided Velcro straps. Ensure to avoid attaching Velcro straps to any moving parts of the stand.



WIRING



Settings

NOW that everything is connected, you can power up your module.



CONSULT your manual to locate your trigger settings.



LOCATE HI-HAT ADJUSTMENTS

Hi-Hat	
SENSITIVITY	00
THRESHOLD	00



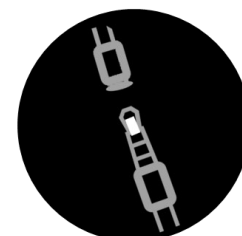
ADJUST your trigger settings as described in your manual. Every module varies in its terminology and internal correction algorithms. Understanding your drum modules parameters and corrective abilities is crucial for optimal performance. We have a list of baseline settings on our website for most popular drum modules to get you started.



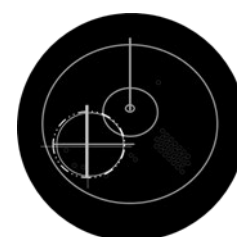
**CLICK HERE FOR
QUICKSTART SETTINGS**

Getting Started

CRASH INSTALLATION



WIRING



TRIGGER
LOCATION



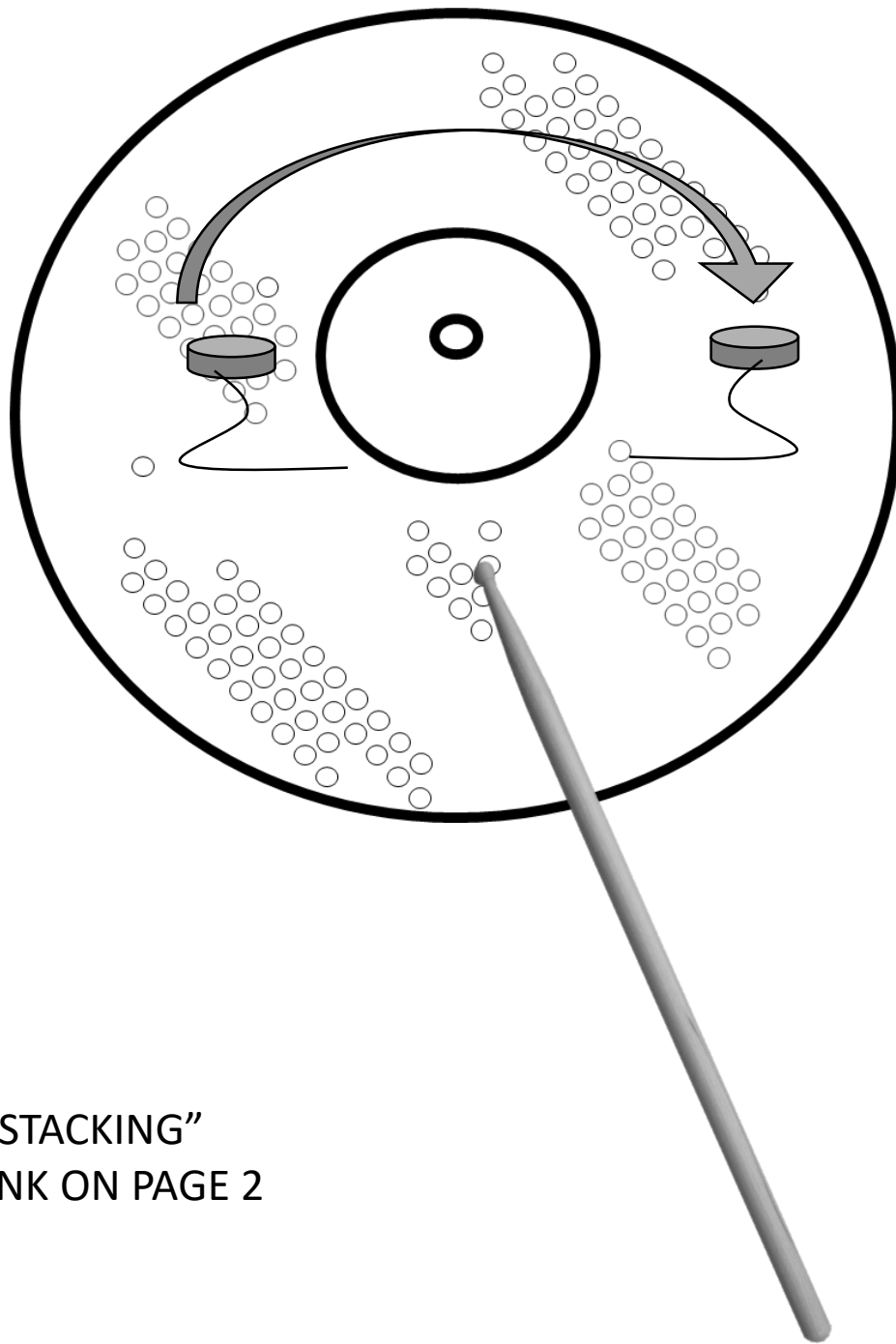
TRIGGER
INSTALLATION

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Trigger Location

SINGLE ZONE CRASH

Place the trigger about 3 inches off to the side of the bell on 16" and 18" crash cymbals. You can experiment with either side to see if there is a noticeable difference when struck normally.



IN THE KNOW

TO LEARN ABOUT "ZONE STACKING"
CHECKOUT OUR VIDEO LINK ON PAGE 2



WIRING

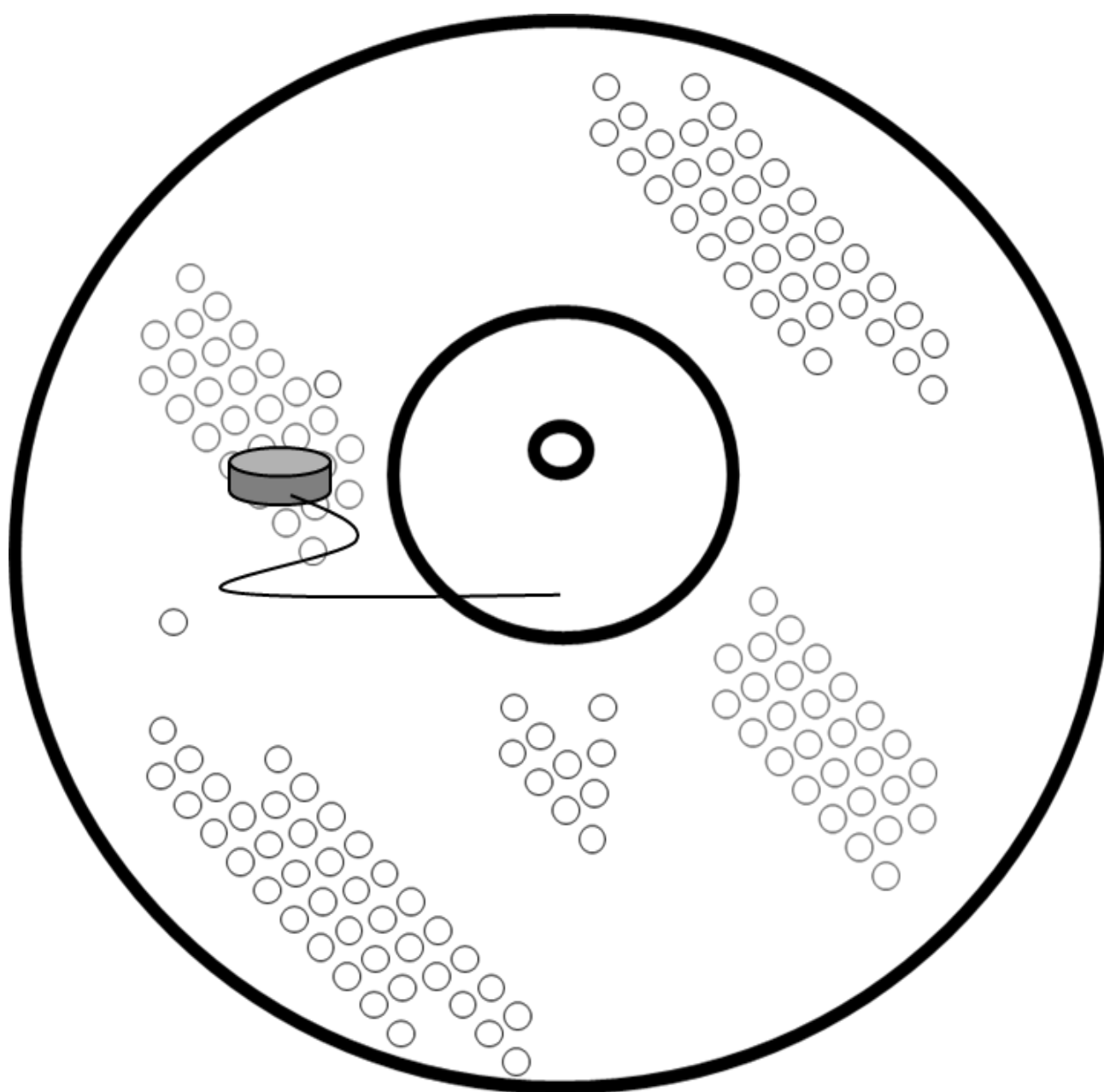
MAGNATRACK®
DRUM AND CYMBAL TRIGGERS

Trigger Location

CRASH INSTALLATION

SINGLE ZONE CRASH

You should end up with this view from the bottom of the cymbal. On the next slide we will secure the trigger and the retainer clips.

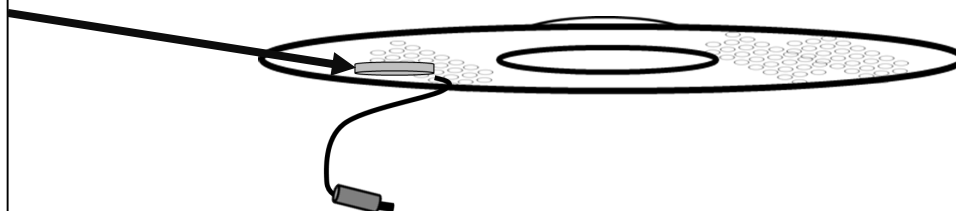


WIRING

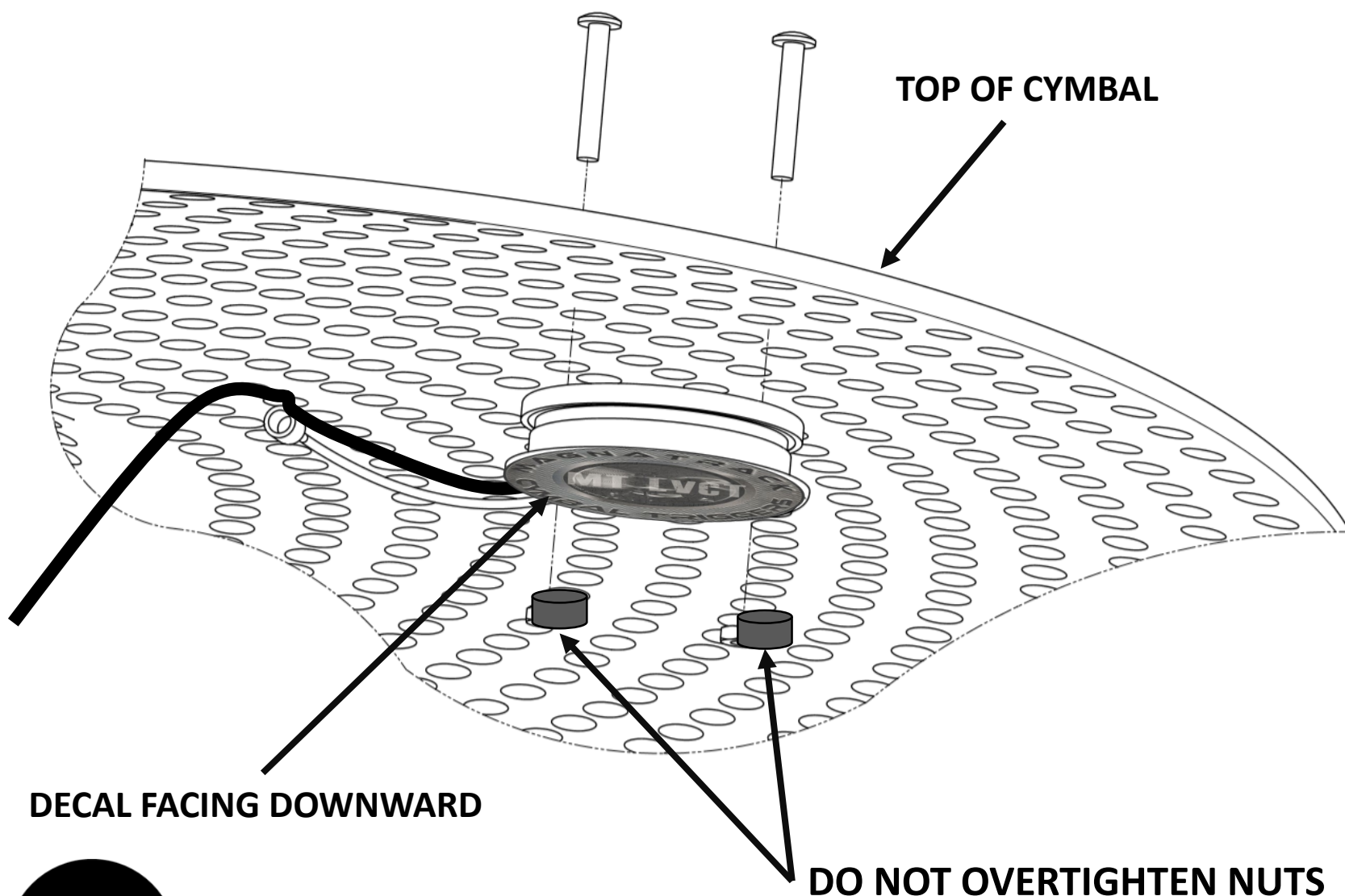
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DRUM AND CYMBAL TRIGGERS

Trigger Mounting

ALL TRIGGERS
GET MOUNTED
TO BOTTOM
SIDE OF THE
CYMBAL



THE BLACK RUBBER PORTION
OF THE TRIGGER SHOULD BE
MAKING CONTACT WITH THE
CYMBAL

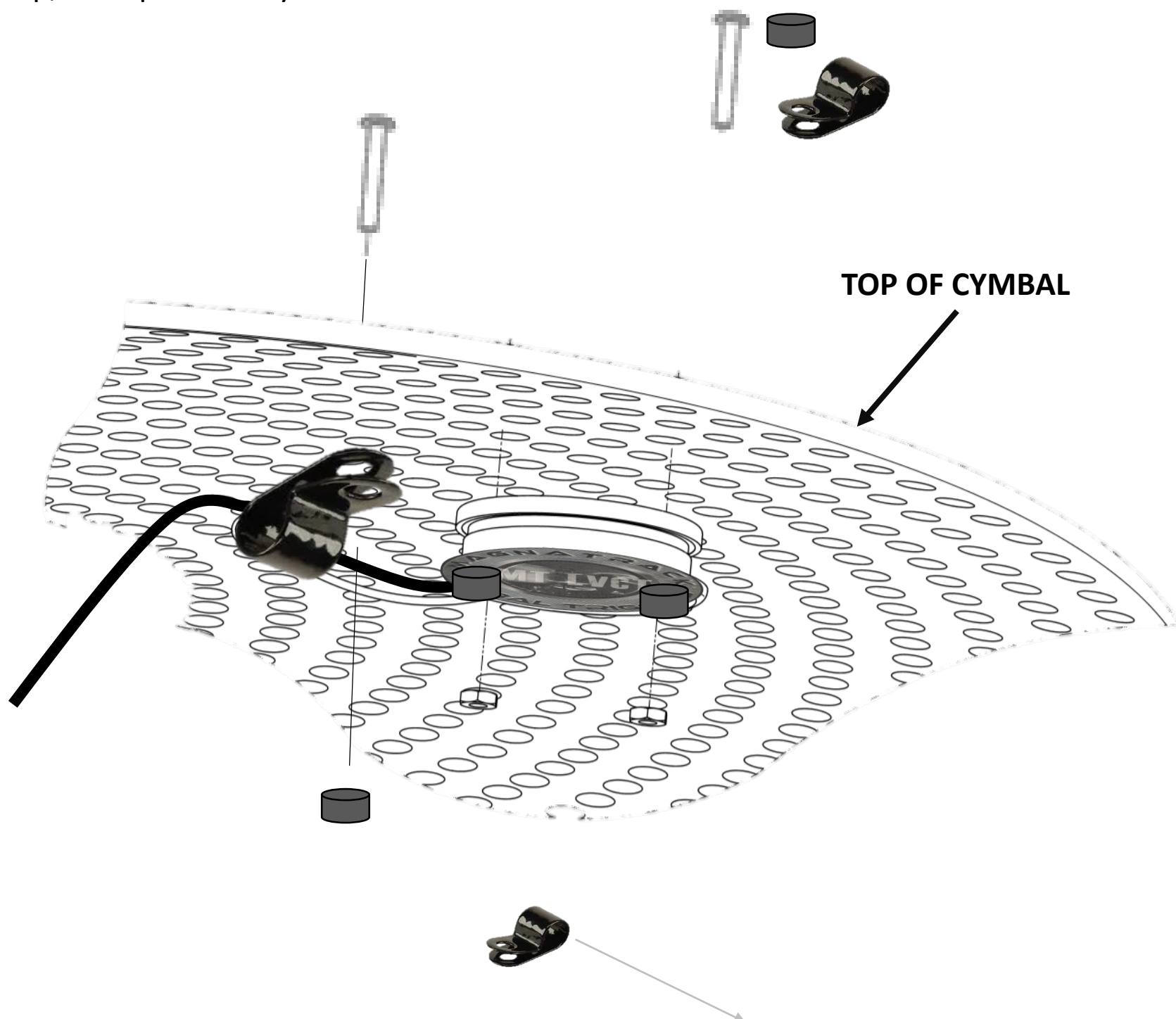


TRIGGER
INSTALLATION

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DRUM AND CYMBAL TRIGGERS

Trigger Mounting

Secure the cable of the trigger using the 1/8" "P" clip. Use a nut and bolt to secure. Bolt goes down through top cymbal with head of facing up, on top side of cymbal.

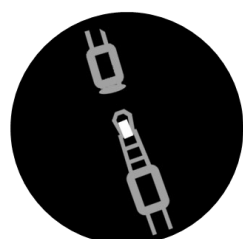
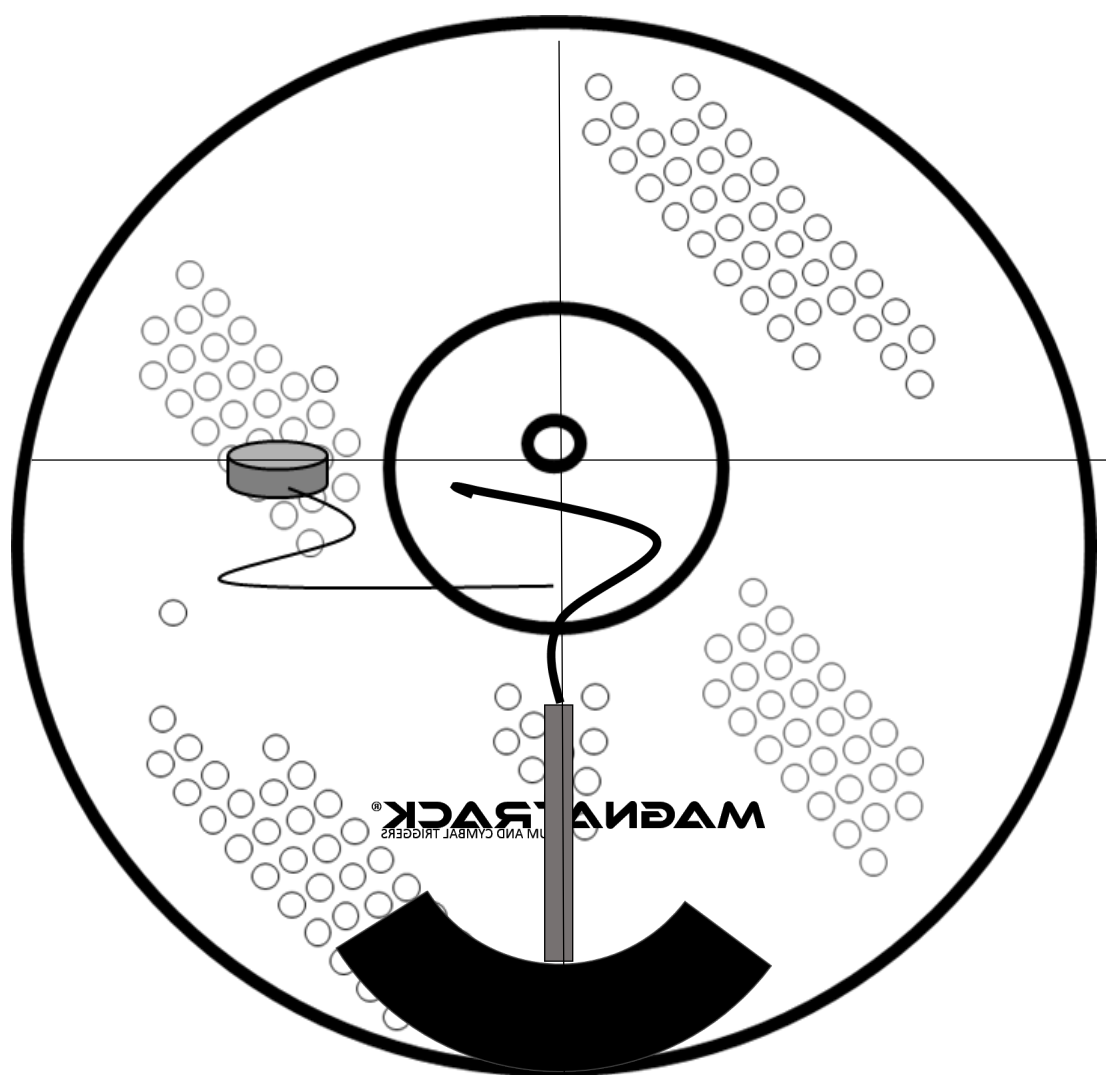


Trigger Location

CRASH INSTALLATION

SINGLE ZONE CRASH + CHOKE

Adding the LVC-1 is much like mounting a trigger. Once installed it should look like image below with cable ends both ready to be secured by clips to the bell area.



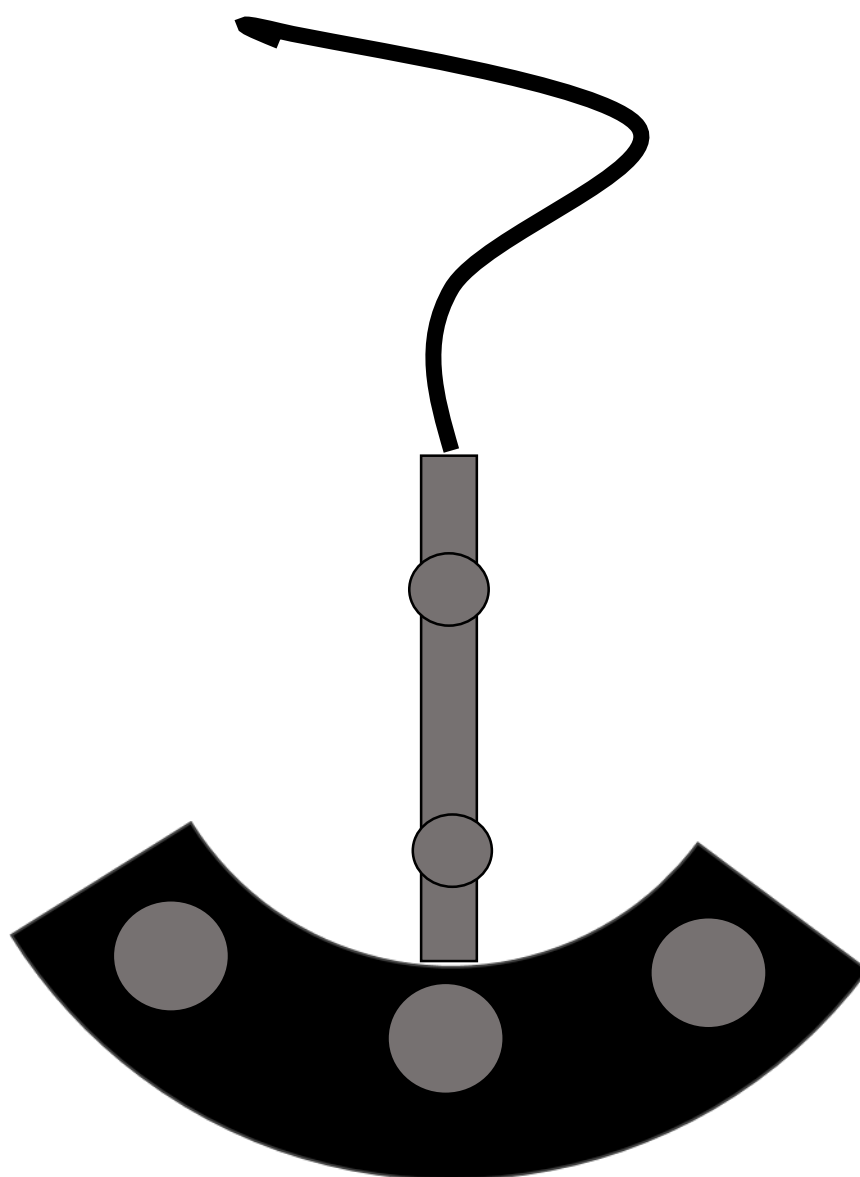
WIRING

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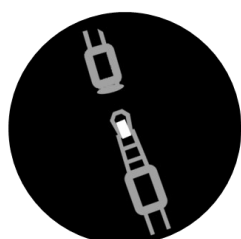
Trigger Location

SINGLE ZONE CRASH + CHOKE

Locate the placement of the choke with Magnatrack logo on top side before removing the double sided adhesive dots.



BOTTOM SIDE OF CHOKE

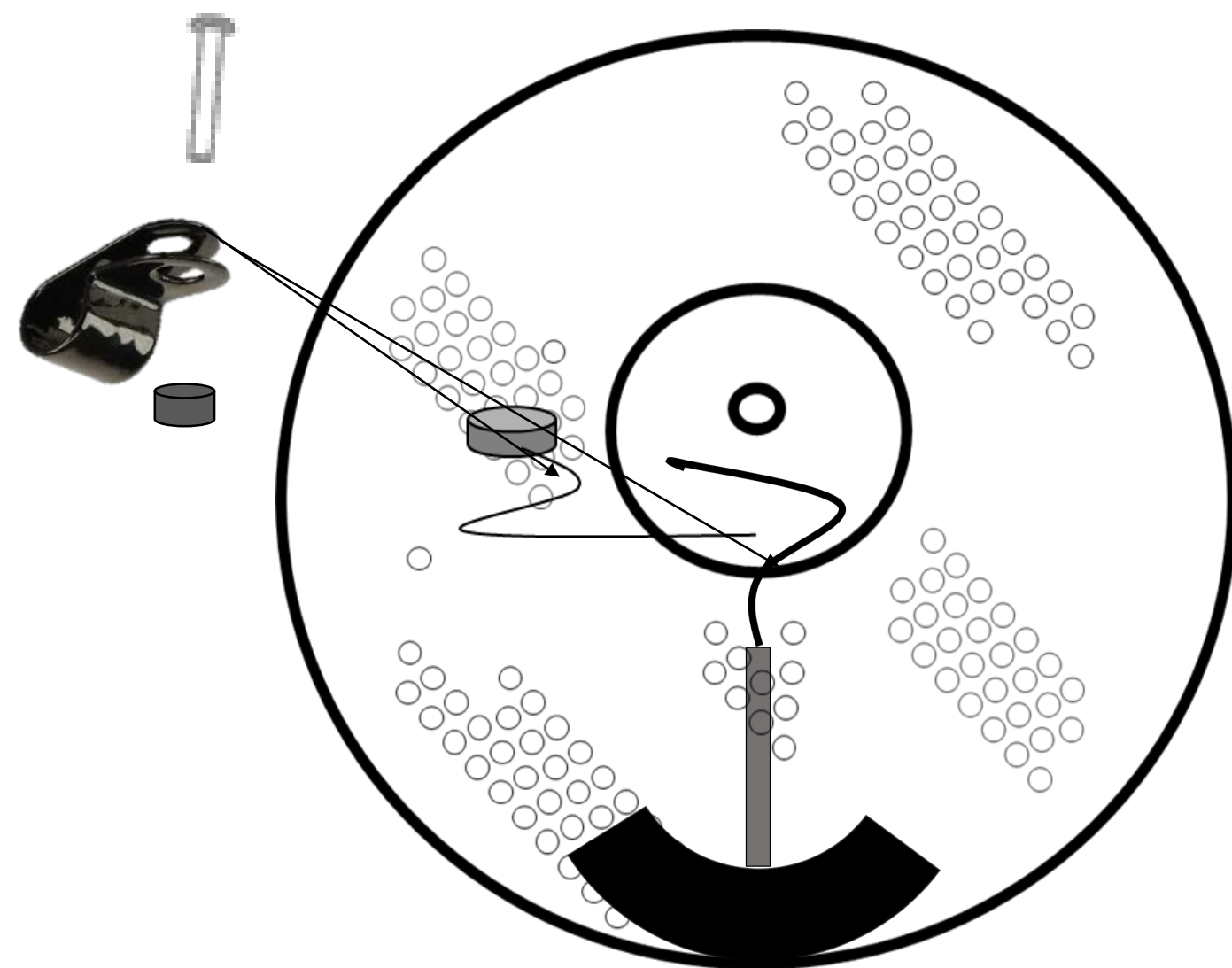


WIRING

How Our Cables Work

CRASH INSTALLATION

Secure both with clips near the body of the choke and trigger as shown, leaving slack on opposite side to connect to the Dual Zone Adapter. Clips should be tight enough to prevent cable movement through the clip.



Crash Dual Zone Adapter

The Dual Zone Adapter is for use with a Dual Zone Crash when one of the zones is a choke. It can be used for multiple trigger zones, however we always recommend giving each trigger its own input channel on the drum module if possible. This avoids any trigger cancelation and allows the triggers to be blended in a natural way.

Dual Zone Adapter



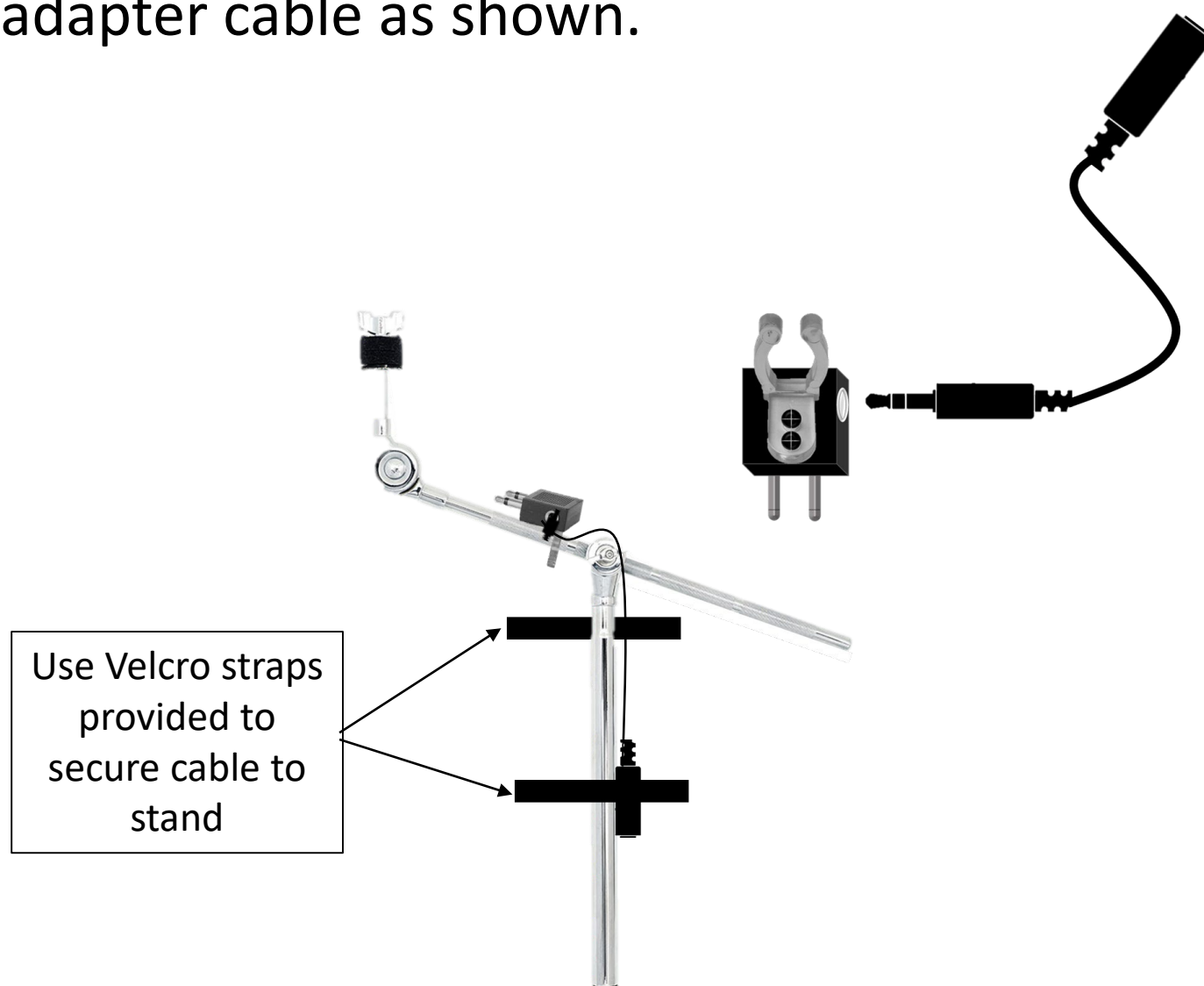
Mount the Dual Zone Adapter
As shown in Fig A.

Fig A.

Crash Dual Zone Adapter

The Dual Zone Adapter is for use with a Dual Zone Crash when one of the zones is a choke. It can be used for multiple trigger zones, however we always recommend giving each trigger its own input channel on the drum module if possible. This avoids any trigger cancelation and allows the triggers to be blended in a natural way.

Connecting the Dual Zone Adapter to module using adapter cable as shown.



Crash Dual Zone Adapter

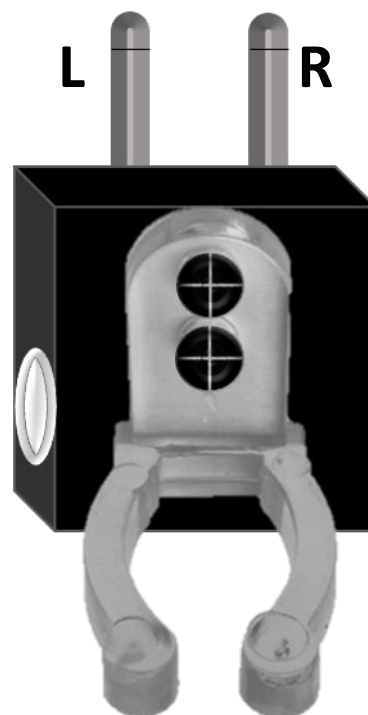
The Dual Zone Adapter is for use with a Dual Zone Crash when one of the zones is a choke. It can be used for multiple trigger zones, however we always recommend giving each trigger its own input channel on the drum module if possible. This avoids any trigger cancelation and allows the triggers to be blended in a natural way.

Connecting the trigger and choke Dual Zone Adapter cable as shown.



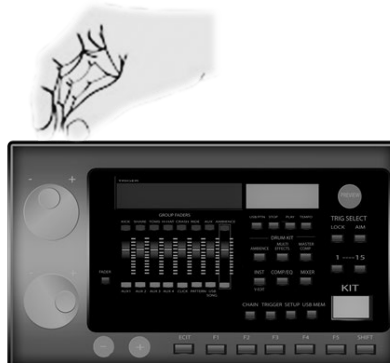
**Connect
adapter
cable to
drum
module**

**L/R inputs
may vary
among
brands**



Settings

NOW that everything is connected, you can power up your module.



CONSULT your manual to locate your trigger settings.



LOCATE CRASH ADJUSTMENTS

CRASH	
SENSITIVITY	00
THRESHOLD	00



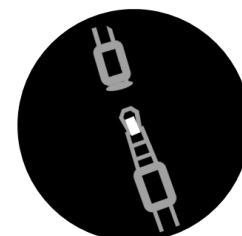
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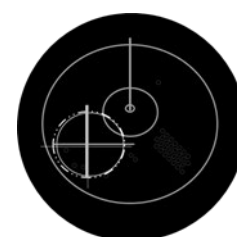
CLICK HERE FOR QUICKSTART SETTINGS

Getting Started

RIDE INSTALLATION



WIRING



TRIGGER
LOCATION



TRIGGER
INSTALLATION

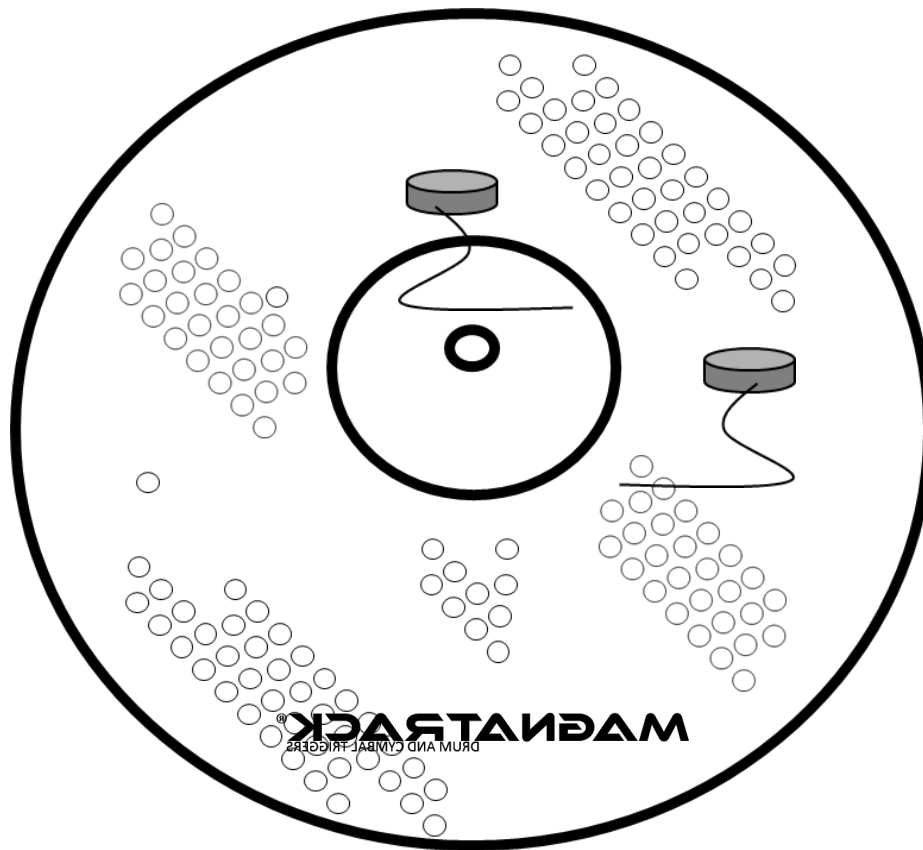
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Trigger Location

DUAL ZONE RIDE

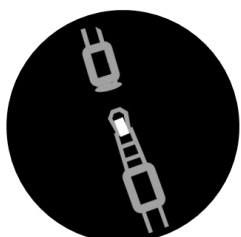
RIDE INSTALLATION

IT IS HIGHLY RECOMMENDED FOR OPTIMAL RESULTS TO PUT EACH OF THE RIDE TRIGGERS ON THEIR OWN INPUTS. THIS WILL PREVENT TRIGGER CANCELATION BETWEEN THE ZONES. THIS APPROACH ALSO MAKES “ZONE STACKING” FOR THE BOW/EDGE TRIGGER HIGHLY EFFECTIVE IN ACHIEVING A NATURAL RIDE SOUND.



IN THE KNOW

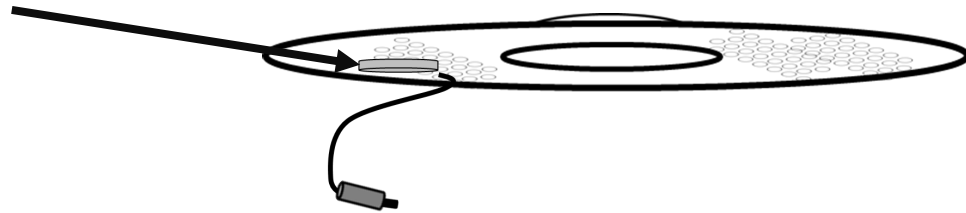
TO LEARN ABOUT “ZONE STACKING”
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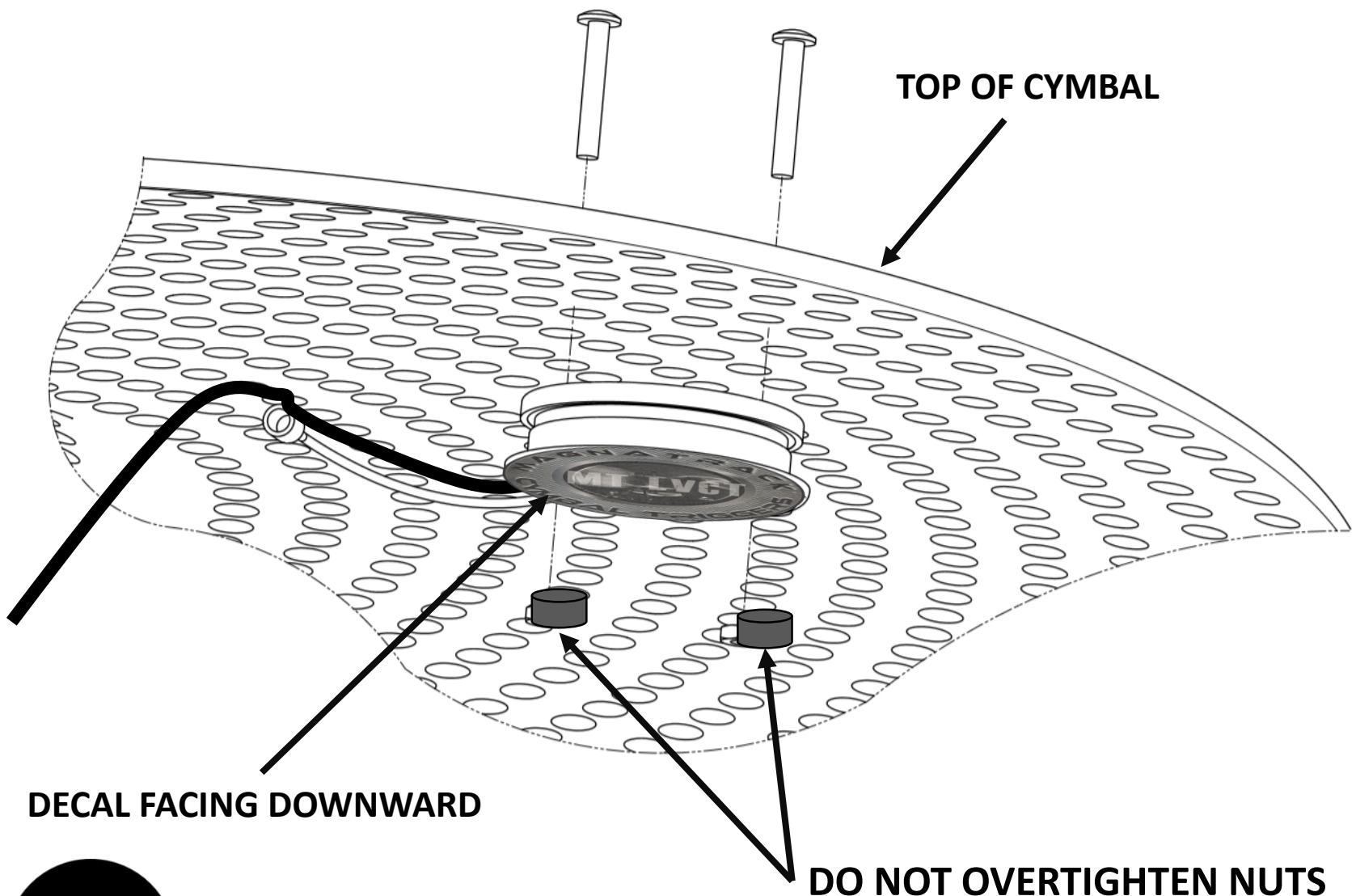
WIRING

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DRUM AND CYMBAL TRIGGERS

Trigger Mounting

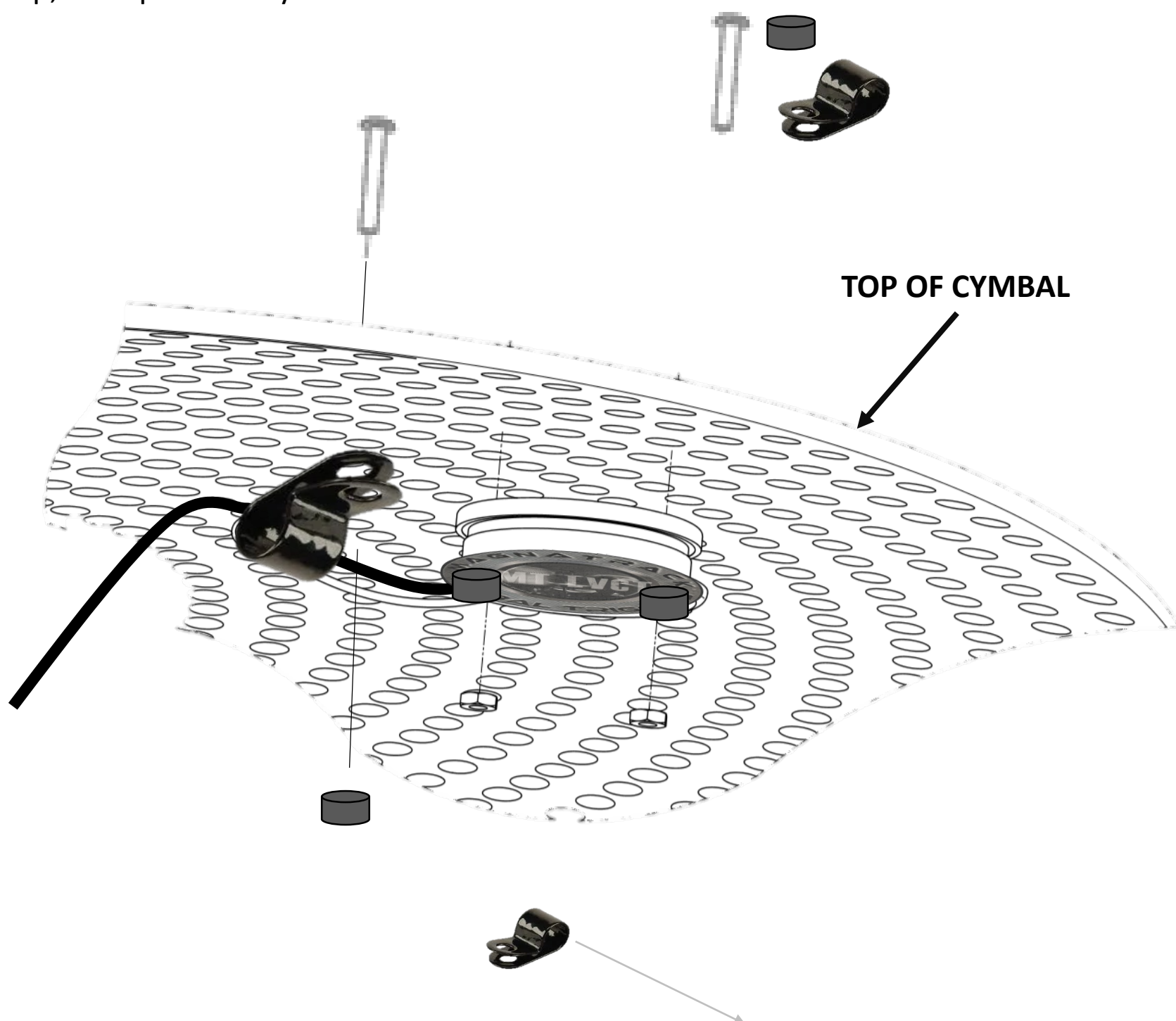


**THE BLACK RUBBER PORTION
OF THE TRIGGER SHOULD BE
MAKING CONTACT WITH THE
CYMBAL**



Trigger Mounting

Secure the cable of the trigger using the 1/8" "P" clip. Use a nut and bolt to secure. Bolt goes down through top cymbal with head of facing up, on top side of cymbal.



Settings

NOW that everything is connected, you can power up your module.



CONSULT your manual to locate your trigger settings.



LOCATE RIDE ADJUSTMENTS

RIDE	
SENSITIVITY	00
THRESHOLD	00



ADJUST your trigger settings as described in your manual. Every module varies in its terminology and internal correction algorithms. Understanding your drum modules parameters and corrective abilities is crucial for optimal performance. We have a list of baseline settings on our website for most popular drum modules to get you started.

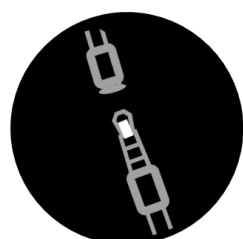
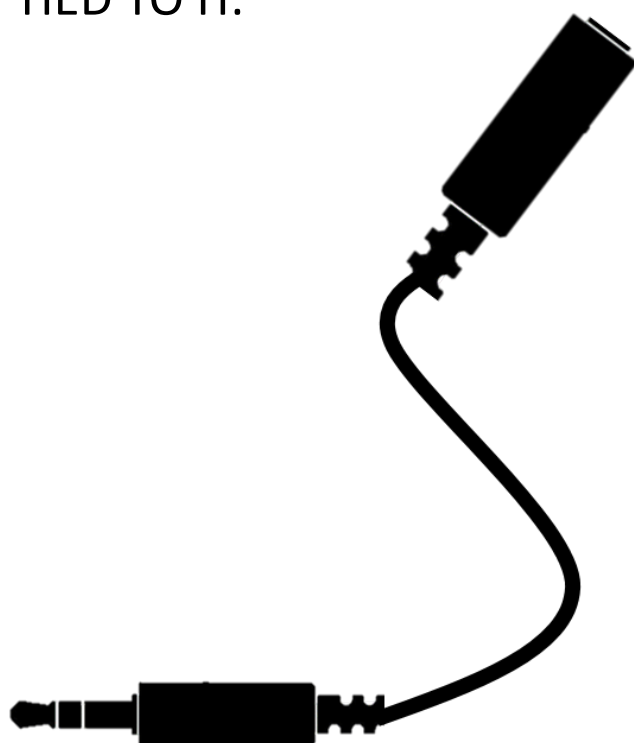
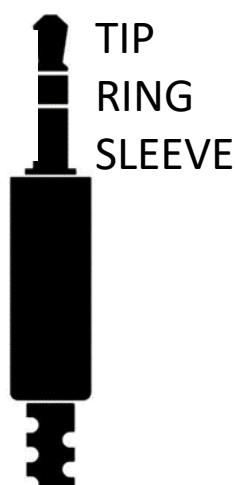


**CLICK HERE FOR
QUICKSTART SETTINGS**

How Our Cables Work

OUR ADAPTER CABLES ARE ALL STEREO TRS 1/8" MALE TO 1/4" TRS FEMALE TO ENABLE UNIVERSAL COMPATIBILITY WITH ALL STANDARD DRUM MODULE CONNECTIONS. THE CABLE CAN WORK AS BOTH A SINGLE OR DUAL ZONE IN IT'S FUNCTIONALITY. FOR EXAMPLE IF USING A DUAL ZONE SNARE CHANNEL ON YOUR MODULE WITHOUT A RIM ZONE CONNECTED YOU WILL GET UNWANTED RIM SOUNDS WHEN STRIKING THE HEAD TRIGGER DUE TO THE FACT THE TWO ZONES SHARE A GROUND OR THE SLEEVE IN A TRS CONNECTION. TO PREVENT THIS YOU HAVE MULTIPLE OPTIONS.

- OPTION 1 – SET YOUR INPUT PRESET FOR A SINGLE ZONE LIKE A KICK DRUM. IN MOST CASES YOU WILL STILL HAVE ACCESS TO THE SAME PARAMETER FUNCTIONALITY AS YOU WOULD WITH A DUAL ZONE PRESET.
- OPTION 2 – IF YOUR MODULE HAS THE ABILITY TO SIMPLY TURN A ZONE OFF OR CHOOSE NO SAMPLE ASSIGNED THIS WILL WORK AS WELL.
- OPTION 3- MOST MODULES HAVE INTERNAL MIDI NOTE ASSIGNMENT FUNCTIONALITY. SIMPLY CHANGE THE MIDI NOTE TO OFF, NONE OR A NOTE THAT HAS NO SAMPLE TIED TO IT.



WIRING

How Our Cables Work

COMPLETE CABLE CONNECTIONS AS SHOWN

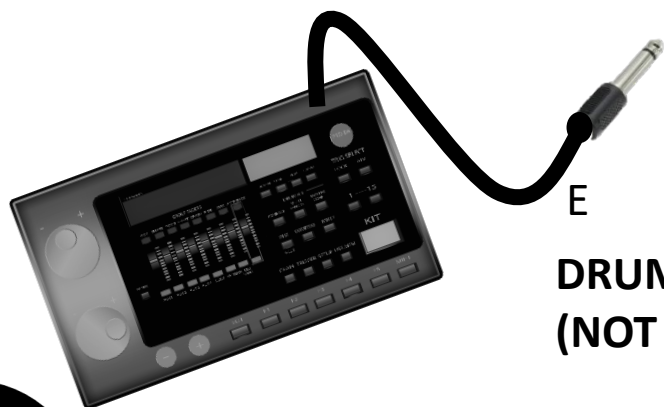
1. TRIGGER



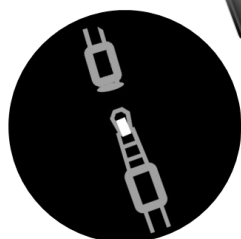
2. ADAPTER CABLE



3. MODULE INPUT CABLE



DRUM MODULE HI-HAT INPUT
(NOT HI-HAT CONTROLLER INPUT)



WIRING

MAGNATRACK®
DRUM AND CYMBAL TRIGGERS

CONNECTIONS

Quickstart Settings

We have provided a set of baseline module settings to get you started. These baseline settings are relevant for all modules of “R” type brand. Personal tweaking may be needed.

“R” Type Modules



HI-HAT

PRESET - KD-7	SCAN TIME – 2.0
SENS – 12-20	RETRIGCANCEL – 5-8
THRESH – 8	MASK TIME - 10
CURVE – LINEAR	XTALK CANCEL - 10



CRASH W/CHOKE

PRESET – CY-14C	SCAN TIME – 2.0
SENS – 12-15	RETRIGCANCEL – 5-8
THRESH – 2-5	MASK TIME - 10
CURVE – LINEAR	XTALK CANCEL – 30
RIM GAIN - 0.8	



AUX BOW/EDGE

PRESET – KD-7	SCAN TIME – 1.6
SENS – 12-15	RETRIGCANCEL – 3-5
THRESH – 6-8	MASK TIME - 10
CURVE – LINEAR	XTALK CANCEL – 30



RIDE BELL

PRESET – KD-7	SCAN TIME – 1.6
SENS – 12-15	RETRIGCANCEL – 3-5
THRESH – 6-8	MASK TIME - 10
CURVE – LINEAR	XTALK CANCEL – 20