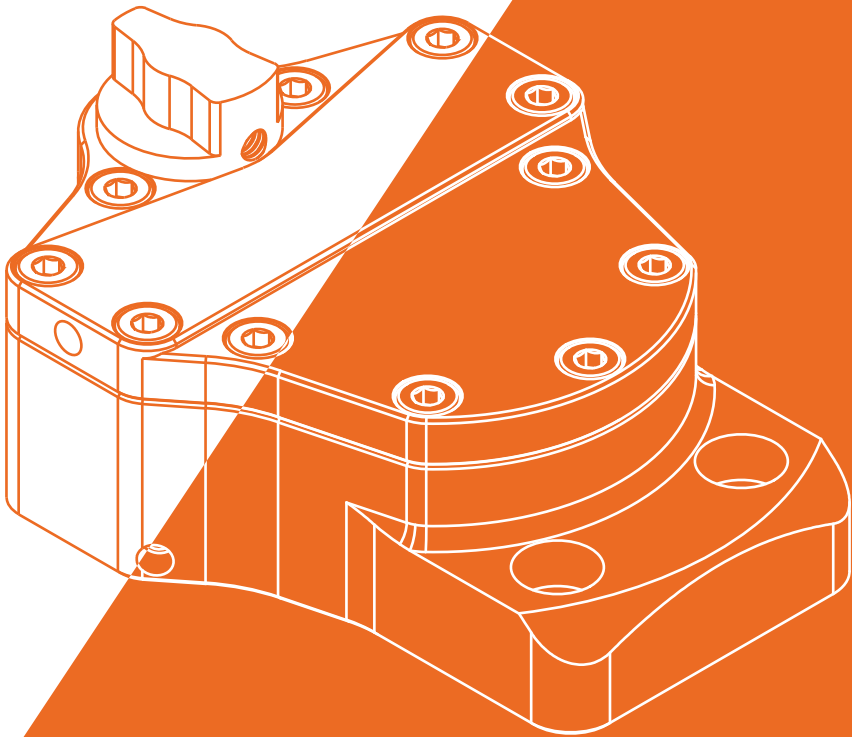


MSCMOTO

**STEERING DAMPER
OWNERS GUIDE**



**INSTALL INSTRUCTIONS,
SERVICING & MORE.**





AUSTRALIAN-MADE COMPONENTS, MAKING LIGHT WORK OF ROUGH TRACKS FOR OVER 25 YEARS.

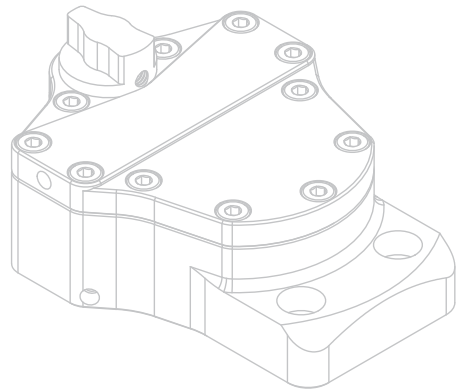
For over 25 years MSC has engineered a host of Australian-made steering dampers that have been tested, developed and proven by Australia's leading off-road riders.

From our first Steering Damper in 1995 through to the latest generation VectorMX Damper, our unwavering commitment to constantly improving performance, comfort and safety has never let up.

Our products are entirely designed and manufactured right here at our facility in Australia, NSW. If you ever have any questions regarding your MSC product, give us a call and chat with the people who make them!

PLEASE NOTE:

This owners manual contains important information about your new Steering Damper, please review the entire manual to ensure trouble-free usage of your new product.



GET IN CONTACT!

Still need assistance? Get in touch with us and speak to the same people that manufacture your product! We're always happy to help.

 www.mscomoto.com

 +61 2 4374 1655

 info@mscomoto.com

 Mangrove Mountain, NSW Australia

INSTALL INSTRUCTIONS



*Scan to view install instructions,
or visit www.mscmoto.com*



ATTENTION:

Please note, this product should be installed by a mechanic or qualified technician.
Please contact MSC Moto with any enquiries.



SERVICING YOUR DAMPER

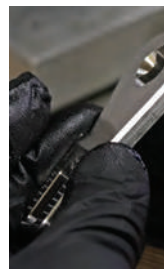
HOW TO TAKE CARE OF YOUR STEERING DAMPER AND ENABLE YEARS OF TROUBLE-FREE USAGE!

Just like your suspension and many other components, there will come a time when your Steering Damper will require servicing to work as well as the day you purchased it.

HOW OFTEN DOES IT NEED SERVICING?

The frequency that your damper requires servicing depends on many variables; Amount of riding, riding conditions, current maintenance schedule etc. A basic rule of thumb is to keep track of the frequency at which your suspension is serviced and aim to align your damper with the same schedule.

If you have any questions please reach out to us to discuss.



DAMPER SERVICING KITS

MSC products have a complete service kit available for purchase to suit your damper. The service can be carried out at home by the customer or taken to your nearest MSC stockist.

The service kit includes all parts required to change during a service (excluding fork oil), along with detailed instructions on how to carry out your service.

We recommend a high-quality 5W fork oil.

SERVICED BY MSC

Alternatively, we offer servicing on MSC dampers. This can be purchased through our website, scan below to purchase or for more information on how an MSC service is carried out.



***Scan to view all of our
Damper Service options***



TECHNICAL INFORMATION

AN OVERVIEW OF YOUR NEW STEERING DAMPER AND MSC'S KEY DESIGN FEATURES

MSC Moto steering dampers are a hydraulic rotary vane dampening system that essentially sets the maximum speed your handlebars can go from full lock to full lock. In short, a Steering Damper helps you control the side-to-side motion of the front wheel by dampening sharp or sudden hits that may turn your front wheel and send you in an unintended direction.

DAMPER ADJUSTMENT DETAILS

20 clicks of adjustment on the main dial: SOFT = Anti-clockwise, HARD = Clockwise

Start your first ride with the dial set in the middle, if you require more or less damping adjust the dial accordingly a few clicks at a time. It may take some time to work out your desired damping, depending on track conditions etc. Once the dial has stopped clicking/turning, the damper has reached the end of the adjustment range. **DO NOT** attempt to turn the dial any more as this will damage the Damper.

DEFLECTION DAMPING EXPLAINED (A—> B and D—> E)

The linkage arm connects to our solid billet steel paddle/rotary vane which pushes hydraulic oil through our 20 position adjuster absorbing the impact back to the frame instead of the rider's arms.

Every motorcycle has suspension to help you control the up and down movements of your front wheel. Well, a steering damper does a similar thing! The harder you have it set, the harder it is for the oil to pass and the more it dampens the steering movement. With 20 different settings, there is a perfect setting for every situation.

In the event of a sideways collision to your front wheel, the deflection will attempt to turn the handle bars in a sudden and potentially dangerous direction.

This is where your MSC Moto damper takes over.



ACTIVE RETURN TO CENTRE TECHNOLOGY; WHAT IS IT, AND HOW DOES IT WORK?

Exclusive to MSC, ACTIVE RETURN TO CENTRE is the best of both worlds in “return to centre” damping options.

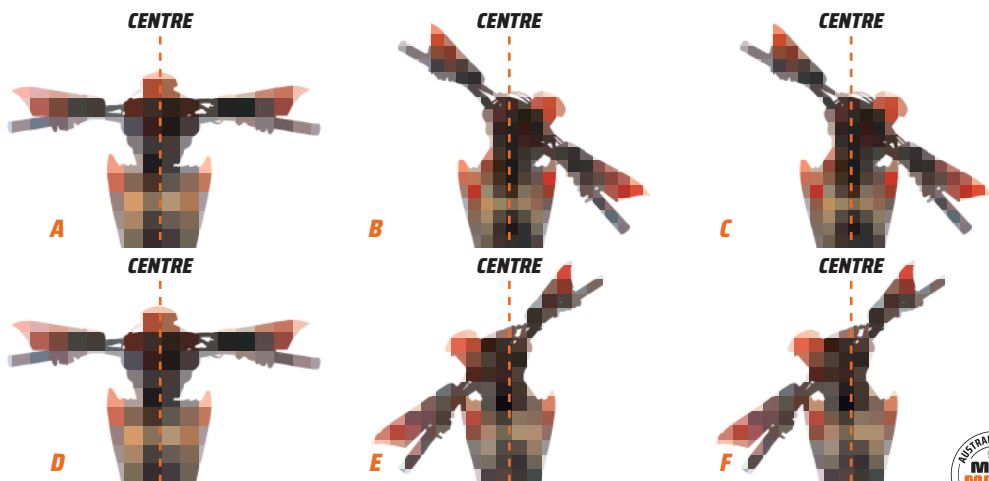
The Active RTC will work out from the rider's input if the bike needs ZERO or NO damping on return to the centre, or if the rider needs FULL damping on return to the centre.

FOR EXAMPLE;

If the rider is travelling at high speeds where steering is minimal but stability requirements are high, the damper will provide FULL damping on return to the centre to eliminate free play which gets rid of head shake.

However, if the rider needs to make a fast counter-steer movement back to the centre, or abrupt movements are required (through tight trails etc), the oil will bleed off and bypass the dampening unit, so you effectively have a dynamic system that gives the rider ZERO damping on return to centre.

The ACTIVE RTC only works when needed and is pressure sensitive so no adjuster is used. We like to refer to it as a "Steering Damper with a Brain!"



TRANSFERRING YOUR DAMPER

Your Damper can transfer to a new bike, however, linkage arms and Mounting Kits differ depending on your model bike and will need to be purchased.

Mounting kits differ for every model of bike. If you purchase a different model bike, chances are you will need a new mounting kit. It is important to note that some Steering Dampers also have different length linkage arms (85cc's etc). These can also be purchased to save you from buying a completely new damper.

These additional parts can be purchased by contacting MSC Moto directly, however, they can not be purchased directly through the website.

Call 02 4374 1655 or Email info@mscmoto.com to purchase.

Below are examples of brackets & linkage arms that may come with your Damper. These come in all different sizes etc to suit different models and can be transferred to your new bike - see the parts reference page for more.



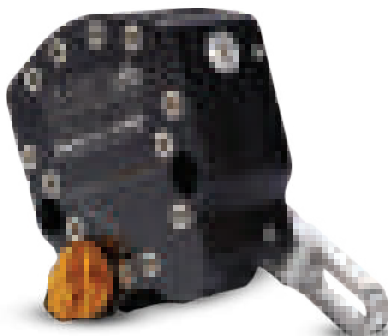
STEERING DAMPER PRODUCT RANGE

AXIS

*MX / OFF-ROAD STEERING DAMPER
AVAILABLE IN TOP AND DOWN UNDER MOUNT*

INCLUDED IN KIT:

- Axis damper unit
- Handlebar bracket
- Spigot post
- Bolt kit
- Bar pad kit (Included with top mount only)



VECTOR MX

*MX / OFF-ROAD STEERING DAMPER
LOW-PROFILE UNDER BAR MOUNT*

INCLUDED IN KIT:

- VectorMX Steering Damper
- Lower bar clamps
- Billet Top Bar Clamp
- Spigot post
- Bolt kit

RM3

*ADVENTURE STEERING DAMPER
UNDER-BAR MOUNT*

INCLUDED IN KIT:

- RM3 Steering Damper
- Damper Mount Bracket
- Billet Top Bar Clamp
- Pin post
- Bolt kit



STEERING DAMPER PARTS REFERENCE



VECTOR STEERING DAMPER KIT

1. Damper Unit
2. Linkage Arm
3. Spigot Post
4. Mount Bracket
5. Top Bar Clamp
6. Lower Bar Mount / Clamp



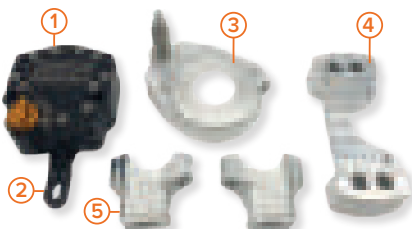
RM3 STEERING DAMPER KIT

1. Damper Unit
2. Linkage Arm
3. Pin Block
4. Frame Plate
5. Mount Bracket
6. Bolt kit



AXIS TOP MOUNT STEERING DAMPER KIT

1. Damper Unit
2. Linkage Arm
3. Spigot Post
4. Top Bar Clamp



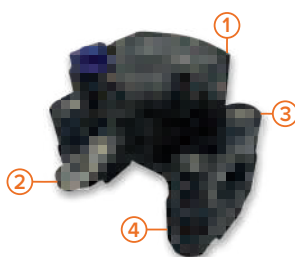
AXIS DOWNUNDER STEERING DAMPER KIT

1. Damper Unit
2. Linkage Arm
3. Spigot Post
4. Mount Bracket
5. Lower Bar Mount / Clamp



RM3 PRO KIT (DAMPER & APEX MOUNTS)

1. Damper Unit
2. Linkage Arm
3. Mount Bracket
4. Pin Block
5. Apex Bar Mounts



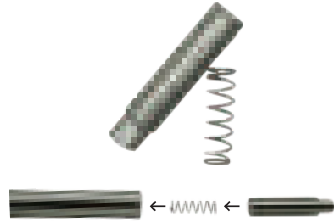
RM3 PRO KIT (DAMPER & APEX MOUNTS)

1. Damper Unit
2. Linkage Arm
3. Top Bar Mount
4. Lower Apex Bar Mounts

STEERING DAMPER **PARTS REFERENCE**

SPRING PIN

Drop the spring pin in the hole.
Slide pine in before mounting
the Damper Unit.



SCREW IN TYPE

Screw the pin into the mount so
the top of the pin is level with link
arm. Lock the nut off once the
height is set.



FIXED PIN

This pin is pre-set and should
not require any adjustment.



CLEARANCE GUIDE

Ensure there is clearance between
the link arm and the top of post mount.



WARRANTY

“We believe it's in our best interest to keep our customers completely satisfied with all of our products”

WARRANTY PROCESS

MSC Warrants all its products back to base for 12 months based on manufacturing fault.

We pride ourselves on creating products built to withstand the harsh conditions that come with motorcycle riding so our customers can use them trouble-free for years to come.

However, in the unlikely event that our products fail outside of your control, MSC Warrants all our products back to base for 12 months based on manufacturing fault.

Please contact our customer service team regarding any questions about our product range or warranty issues.



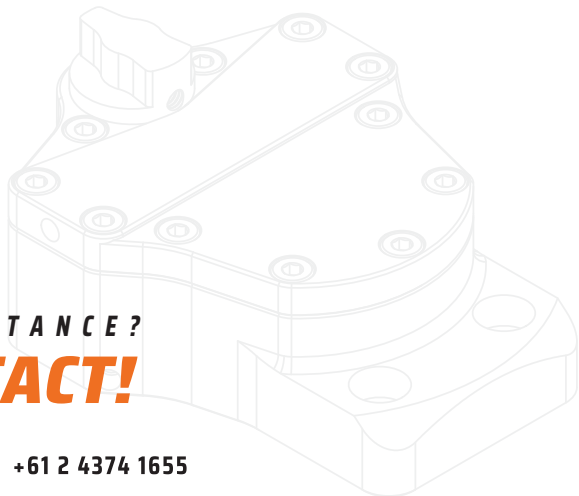
STILL NEED ASSISTANCE?
GET IN CONTACT!

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THANK YOU FOR YOUR PURCHASE



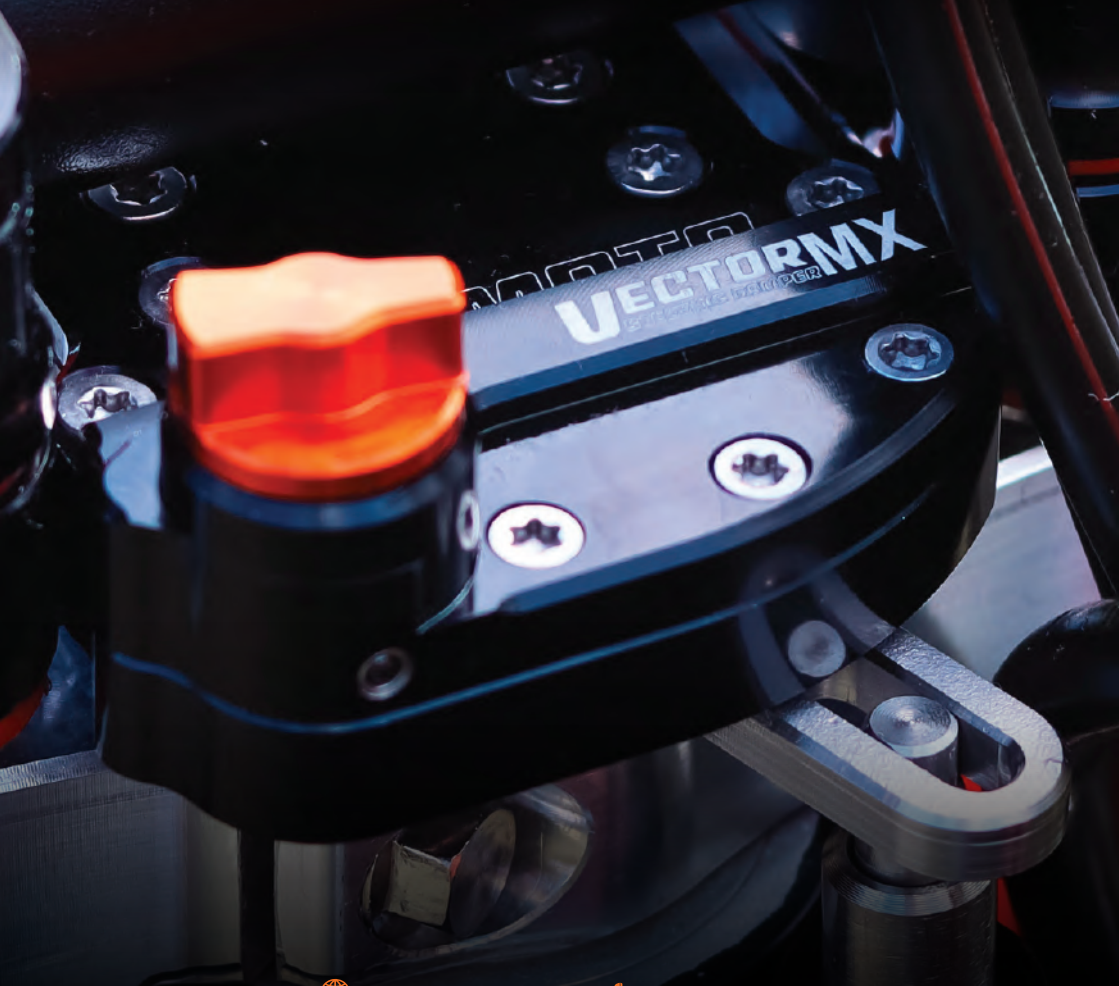
ENJOY YOUR STEERING DAMPER!





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**VISIT OUR WEBSITE FOR NEW PRODUCTS,
INSTALL INSTRUCTIONS, TIPS & MORE!**


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