

**ESTABLISHED**  
**SINCE 1993**



**RM** **STATOR**

**2016**

**POWERSPORTS PARTS**

# CONTACT US

**Toll Free (Canada & USA): 1-877-838-1399**

**Local & International: 819-849-7333**

**Fax: 819-849-6660**

For written inquiries, FAQ and more, visit our Online Customer Service Center at [support.rmstator.com](http://support.rmstator.com) or contact us by e-mail at [support@rmstator.com](mailto:support@rmstator.com)

## Business hours

### Eastern Standard Time

Monday to Thursday: 8AM to 5PM

Friday: 8AM to 4PM

Saturday & Sunday: Closed

## Headquarters

### Canadian Headquarters

541, Main Ouest, Coaticook  
(Québec) Canada J1A 1R2

## RMSTATOR Return Addresses

### Canadian &

### International Customers

RMSTATOR

541, Main Ouest, Coaticook  
(Quebec) Canada, J1A 1R2

### United States Customers

RMSTATOR

395 Caswell Ave  
Derby line VT 05830

## Order fulfillment

Orders received after 11:30am EST  
will only be sent out the next business day.

## Sales

Any sales inquiries, new corporate accounts  
and opportunities requests must be sent to  
[sales@rmstator.com](mailto:sales@rmstator.com)

## RMSTATOR clients around the world



# ANYWHERE, ANYTIME.

Desktop. Tablet. Mobile.

[www.rmstator.com](http://www.rmstator.com)



[www.facebook.com/RMSTATOR](https://www.facebook.com/RMSTATOR) 

[www.youtube.com/RMSTATOR](https://www.youtube.com/RMSTATOR) 



# RMSTATOR DOESN'T LEAVE YOU ON YOUR OWN

## [www.rmstator.com](http://www.rmstator.com)

Buy with confidence using our detailed catalog of parts specifications, OEM cross reference compatibility and other product or vehicle specific information to ensure you get the right part every time.

## [support.rmstator.com](http://support.rmstator.com)

Ask a question and get your answer within the next 24 hours.

## **Live chat**

In a hurry? Talk to a RMSTATOR representative immediately while browsing [www.rmstator.com](http://www.rmstator.com).

## **1-877-838-1399**

Still in a hurry? Talk to a RMSTATOR representative immediately over the phone.

**LET'S TALK!**



# RMSTATOR

THE POWER IN POWER STATS



## DEDICATED SERVICE

Our committed customer service representatives will assist you throughout your entire buying experience. From pre-buy to warranty assistance, we provide the level of service you deserve. For complex cases, rely on our team of dedicated technicians to assist you in resolving any issues you encounter. You won't find a more dedicated team of customer support specialists anywhere. We promise.

## ONLINE SERVICE

RMSTATOR has a team of support representatives dedicated to providing industry leading service to our customers. Ask a question via our customer support portal and get an answer from an expert in 24 hours or less.



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# PURSUING EXCELLENCE

The year has just begun and yet the whiteboard is already full of new challenges and projects, which is just the way we like it.

Nearly 23 years after opening our doors, RMSTATOR is proud to release our first complete product catalog. It has been a wild ride but we have achieved our goals thanks to the generous support of the best suppliers, distributors and customers around the world.

At RMSTATOR, our number one goal is not to merely manufacture replacement parts but to provide reliable solutions that will solve your electrical problems once and for all. Over the last few years we have focused on manufacturing and sourcing not only the largest stator inventory in the world but also adding over a dozen product families to better serve you and your clientele.

## Excellence through partnership

Our dealers are our eyes and ears to the industry. Through strategic partnerships with dealers all over the world, we are able to solicit feedback and provide the marketplace with new and revised designs that eliminate failures and provide a better end product to the customer.

## Excellence through quality control

20 years in the electronics industry has taught us that products are only as good as the components they're made of. That's why we've invested in state of the art testing equipment that allows us complete control over the components and materials used in our products. This equipment allows us to deliver on our promise of providing fully functioning parts to our customers. No more frustrated clients.

We trust our products so much that we have extended our 1 year warranty to our entire product line, including CDI's.

## Excellence through our team, our biggest asset.

Our people are the lifeblood of our company and our team just keeps getting bigger and bigger! We've grown from just ten employees in 2014 to thirty in order to provide the best quality of customer service possible. Our rapid growth is due to the shared values recognized and enforced by our entire family.

### Innovation/Passion/Perseverance/Respect/Trust

Our objective will always be to provide excellence through manufacturing the most reliable electrical products in the powersports industry. We want RMSTATOR to be the name you trust to get your customers up and running.



Roger Masson

**President & Owner**



Sean Yates

**Owner & Sales director**



# RMSTATOR'S INNOVATIVE AC TO DC IGNITION CONVERSION KIT FOR POLARIS

## LET YOUR RIDE START BETTER AND RUN SMOOTHER THAN EVER.

There was a run of Sportsman 600's and 700's from 2002 to mid 2006 that were plagued with electrical problems and failure of the ignition system was a matter of when, not if.

The AC powered ignition was the Achilles' Heel of an otherwise stone reliable ATV. Unfortunately, the price to replace with an upgraded Polaris kit was well over \$500 and it was your only option.


With our new Ignition conversion kit, we convert your problematic 2002-2006 Sportsman 600/700's AC ignition to a much more reliable DC ignition for less than half of the price of the Polaris OEM conversion kit.


**\*Applies to models with carburetors only.**


Our conversion kit consists of a new CDI and a remote coil, all required wiring and bolts, and installation instructions that allow just about anyone to get the job done in 20 minutes without professional help. This kit uses the heavier windings of the lighting coil to power the ignition... the problematic section of the stator is no longer used, and the new secondary ignition coil is isolated from the CDI in contrast to the integral coil/CDI that comes from the factory. The result is more reliability, better spark, and easier diagnosis should you have another problem in the future.


Save money. Save time. And get more bang for your buck!


## BENEFITS


 Much less expensive than replacing multiple OEM components.

 Quick and easy installation with no need to open the engine.

 Converts the unreliable AC powered ignition to a more modern and reliable DC powered system.

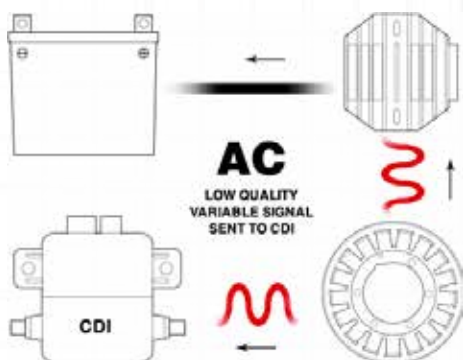
 Improves ignition performance, especially in cold weather.

 The system stabilizes the ignition, especially at low speed.

 Easier diagnosis if a new problem arises.

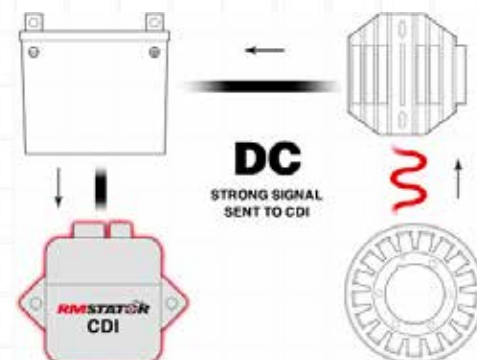
## POLARIS OEM AC IGNITION SYSTEM

1. Generates low quality variable signal, especially at low rev.
2. OEM internal ignition coil is subject to failures due to the system's design.



## RMSTATOR'S DC IGNITION SYSTEM

1. Stabilizes the signal for a constant output at all speeds.
2. Eliminates the need for an internal ignition coil known for causing failures.





## PRaised BY THE SPECIALIZED PRESS



**ATV & SXS Illustrated Magazine**

**October 2013 Issue**

Tech Troubleshooter - Polaris Sportsman  
Ignition Fix



**ATV & SXS Illustrated Magazine**

**Volume 13, Issue 4**

Tech Tip - Polaris Power Fix

## DEALERS TESTIMONIALS



Easy to install,  
very satisfied  
customer.

**Pinter Enterprizes**



The bike is wor-  
king great. Cus-  
tomer is very satisfied and  
loved the video.

**Gary's street and trail**



Happy with the  
price of the pro-  
duct. The video helped  
with the installation,  
customer saved time and  
money.

**Huducks Repair LLC**



The bike is wor-  
king great. Did not  
need instructions to install  
the part it was that easy!

**Troy Jacobs**



Customer could  
not be happier. He  
is refering everyone to  
us for this product. Great  
video and really easy to  
install.

**Doug's Small Engine**



Great kit! East  
to install. The  
YOUTUBE video is very  
helpful!

**Bent Toys**



Extremely easy  
installation. Will  
purchase this part again.

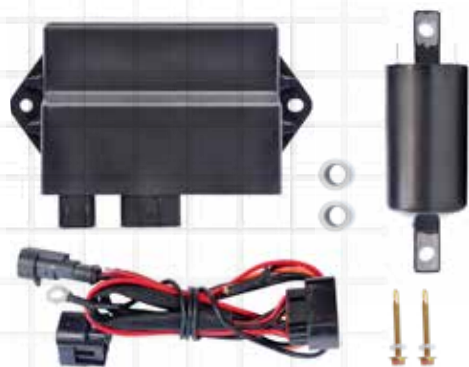
**Buckshot Powersports**



I have pleased  
two of my cus-  
tomers so far with  
your product! I am also  
looking forward to the  
next project involving  
your products.

**Matt's Sled Shed**

## PRODUCTS DETAILS



**RM22957**

Polaris Sportsman ATVs 600/700  
2002-2006



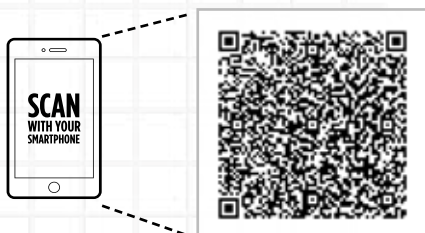
**RM40000**

Polaris ATVs 1995-2004 +  
Ranger 2003-2004



**RM40001**

Polaris 400 cc ATVs 1994-2002



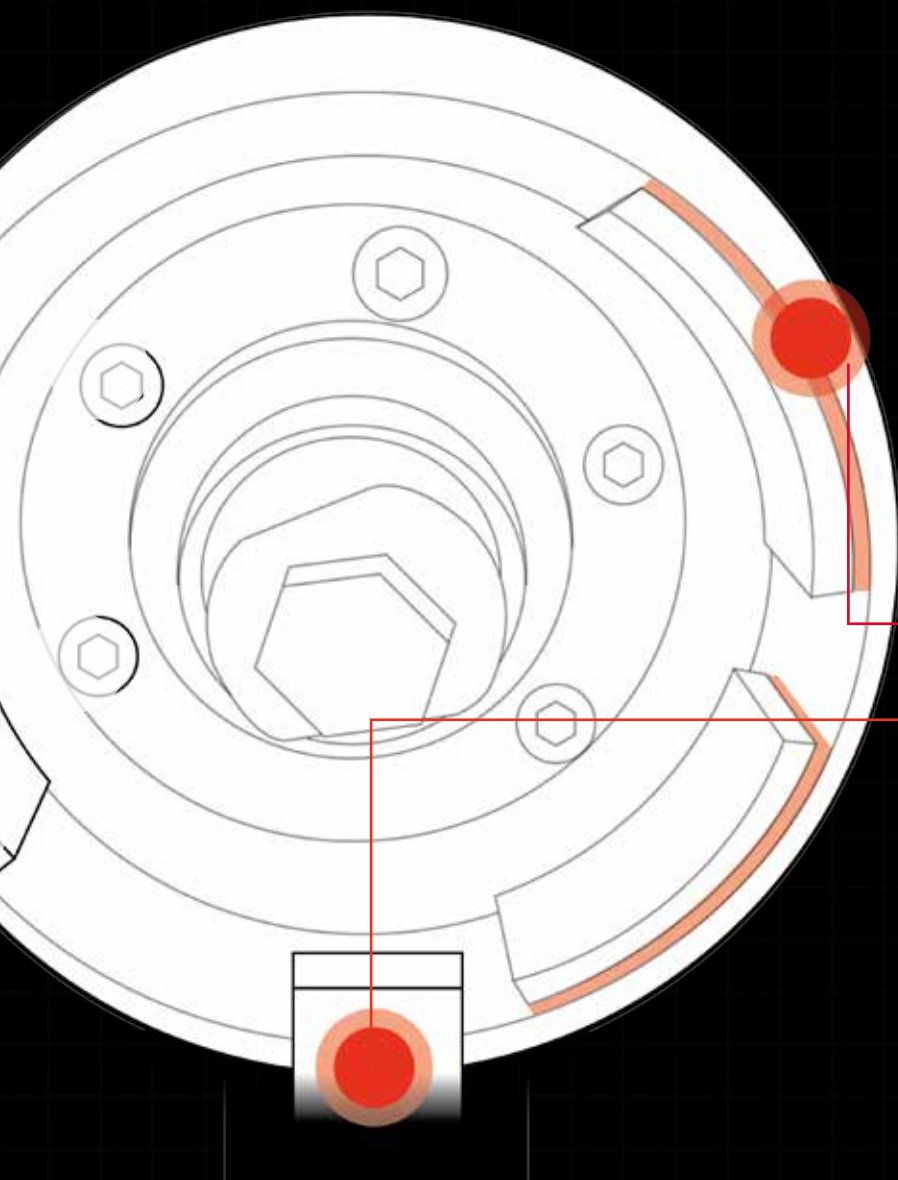
**Installs in less than 30 minutes!**

Watch DIY Installation Video by ATV & SxS Illustrated Magazine

[www.rmstator.com/videos](http://www.rmstator.com/videos)

Shop at [www.rmstator.com/ac2dc](http://www.rmstator.com/ac2dc)

# IMPROVED ARCTIC CAT & SUZUKI ATV FLYWHEEL



## UNDERSTAND WHY THE OEM FLYWHEEL FAILS

2002-2007 Suzuki Eiger 400 and 2003-2008 Arctic Cat 400 ATVs are plagued with problems on the original flywheels. The additives in the motor oil are dissolving the epoxy that holds the magnets in the flywheel, causing them to detach and scatter throughout the engine.

### EXPOSED EPOXY

### DETACHED MAGNET

The bad news is that by the time the problem occurs, no manufacturer provides warranty repairs. Dealership estimates to repair this failure are over \$500 in parts alone.

## DISCOVER RMSTATOR'S NEW IMPROVED ATV FLYWHEEL

### OEM

Arctic Cat

- 3430-054
- 3430-071

Suzuki

- 32102-38F00
- 32102-38F01

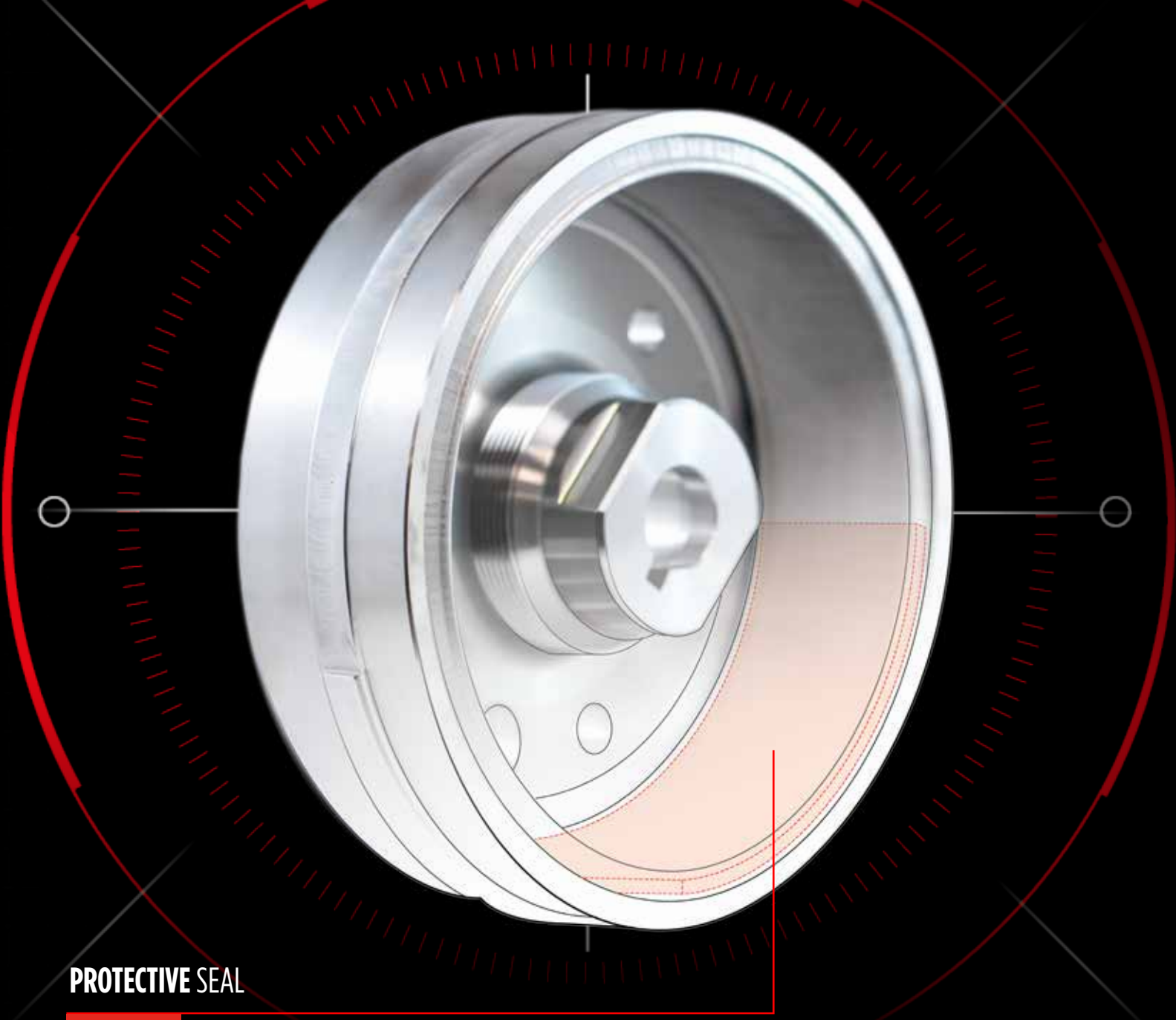
### Fit these models

Arctic Cat

- 375 Automatic 2002
- 400 2X4 2003-2008
- 400 4x4 2003-2006
- TBX 400 4x4 2004-2006
- TRV 400 4x4 2006-2007

Suzuki

- LTA 400 Eiger 2002-2007
- LTF 400 Eiger 2002-2007



## PROTECTIVE SEAL

## LEARN WHY RMSTATOR'S NEW FLYWHEEL IS BETTER THAN THE OEM ONE

RMSTATOR has redesigned the flywheel where the magnets are sealed in the flywheel, which reinforces the epoxy and prevents them from detaching. This new flywheel configuration corrects the problem permanently for half the OEM price.

The **RM11502** flywheel is not only a cost effective way to replace your failed Suzuki or Arctic Cat flywheel, but a great investment when replaced before the failure occurs.

Discover more than 20 kits at [www.rmstator.com/flywheel-kits](http://www.rmstator.com/flywheel-kits)  
(Stator/puller/regulator/gasket/flywheel)



STATORS MADE IN

# CANADA



USING NORTH AMERICAN MATERIALS THAT  
COMPLY WITH THE HIGHEST NORTH  
AMERICAN STANDARDS.

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“ PROUDLY DESIGNED AND ASSEMBLED BY CANADIANS. ”

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**WE WANT TO HEAR YOU!**

In order to keep offering the best available products to our customers,  
help us choose the next stator to produce on Canadian soil.

All you have to do is send your suggestion along with a short reason  
explaining why we should make a Canadian version of it to  
[support@rmstator.com](mailto:support@rmstator.com)



Shop canadian made stators at:  
[www.rmstator.com/canada](http://www.rmstator.com/canada)



# MANUFACTURED STATORS

“ A DREAM RIDE CANNOT RUN ON ORDINARY ELECTRONICS. HAVE A SPECIFIC STATOR PROJECT IN MIND? WE HAVE THE EXPERTISE! ”

We can make any stator following your specifications. Can't find the stator you need? Have a customized vehicle that needs a custom stator? We have the ability to custom manufacture the right part to fit your specific application.

Ready to start your project? Make plans with our customization expert right now by email at [support@rmstator.com](mailto:support@rmstator.com) or by phone at **1-877-838-1399**.

# THE ALL NEW SKI-DOO STATOR

1200 4-TEC / 600 HO E-TEC / 800R E-TEC 2009-2016

**Made in Canada** and backed with the only **5 year warranty** in the industry.

## THE LAST STATOR YOU WILL INSTALL

### WHY DO YOU NEED IT?

Ski-Doo 1200 4-TEC engines are prone to both flywheel and stator failures.

Repair is an 8 hour job minimum and taking the engine out is mandatory.

Replace your stator before it breaks to prevent costly repairs.

Both the stator and flywheel might break, requiring 2 distinct repairs.

### BETTER PERFORMANCE THAN OEM.

- 1 Cooler operating temperature.  
(Approx. 40 °C / 100 °F less than OEM)
- 2 Enhanced poles design allowing better electromagnetic flow.
- 3 Aeronautic grade components.
- 4 Quality controlled North-American components.



## CANADIAN STATORS

Proudly designed and manufactured in Canada by Canadian workers.

# THE IMPROVED SKI-DOO FLYWHEEL

**1200 4-TEC 2009-2016**

## WHY DO YOU NEED IT?

Ski-Doo 1200 4-TEC flywheels were plagued with detaching magnets that were scattering through the engine. For 2016, RMSTATOR redesigned the Ski-Doo 1200 4-TEC flywheel to seal the magnets from the motor oil, reinforcing the epoxy and preventing the magnets from coming apart. This configuration fixes the problem permanently for half the OEM price.

The **RM11503** flywheel is not only a cost effective way to replace your failed Ski-Doo flywheel, but a great investment when replaced before the failure occurs.

**PROTECTIVE  
SEAL**



## THE ULTIMATE PEACE OF MIND KIT

For 3/4 of the OEM price, install the Canadian made stator and flywheel kit. You'll never have to worry about being stranded again. Plus, we offer a 5 year warranty.

Shop RM23034 kit at : [www.rmstator.com/RM23034](http://www.rmstator.com/RM23034)

OEM price : 1066\$ USD RMSTATOR price : 742\$ USD

Shop at

[www.rmstator.com/4tec](http://www.rmstator.com/4tec)



SCAN  
WITH YOUR  
SMARTPHONE



Shop RM23034 kit at

[www.rmstator.com/rm23034](http://www.rmstator.com/rm23034)



# ENHANCED TECHNOLOGY

## STOP BURNING YOUR REGULATOR RECTIFIER!

It's time to update or replace your voltage regulator with the advanced MOSFET type.

### WHY USE MOSFET ENHANCED TECHNOLOGY REGULATOR RECTIFIERS?



#### **RUNS COOLER**

Runs much cooler than the traditional Shunt type voltage regulator.



#### **SAVES GAS**

Less load on the stator means less work, less fuel used and less money spent.



#### **REGULATED ENERGY**

Steady and smooth power flow for charging your battery.



#### **EXTENDED BATTERY LIFE**

Extends the battery's life and cold cranking capacity.



#### **MORE ENGINE POWER**

Removes stator load resulting in more engine power.



#### **OPTIMIZED POWER**

Optimizes power delivery by switching the stator coils on or off.

### HOW DOES IT WORK?

#### **WATCH OUR VIDEO**

We made this explanatory video to demonstrate the difference between a Shunt and a Mosfet regulator rectifier.

[www.rmstator.com/videos](http://www.rmstator.com/videos)



# WHAT IS MOSFET ENHANCED TECHNOLOGY?

Why Mosfet? Mosfet voltage regulators run much cooler than the traditional Shunt type voltage regulator used by most OEMs. Cooler is better in electronics, everyone knows that! An overheating rectifier is frequently the cause of failed charging systems in the powersports industry.

A Shunt based rectifier works perfectly, that is, until the battery is full. What happens when the battery is fully charged? The excess current produced by the stator is sent to ground thus keeping the same current load on the stator.

This produces heat at the voltage regulator's body depending on the amount of wasted energy sent to ground. A Mosfet voltage regulator will instead turn off that wasted energy, removing electrical load to the stator. It can also optimise power delivery by switching the stator coils on or off to generate more or less power depending on engine RPM.

Removing stator load also means more engine power. The more electricity required by the system equals more load on the engine that drives the flywheel magnets over the coils so switching it off when not required is better.

More engine power is great but this technology can also allow you to save on gas. Less load means less work, less fuel used and less money spent!

Lastly, the energy regulated by the Mosfet based voltage regulator is much cleaner (Less voltage spikes). The power charging your battery is constant. This will help in extending the battery's life and cold cranking capacity.

Get out of the heat, switch to our Mosfet voltage regulator today!



Shop Mosfet regulators rectifiers at  
[www.rmstator.com/mosfet](http://www.rmstator.com/mosfet)

# A GASKET IS NOT JUST A GASKET

**NEW RMSTATOR PERFORMANCE GASKETS.  
BUILT TO OEM SPECIFICATIONS.**

**INTERFACE PERFORMANCE MATERIALS.  
 MADE IN THE USA.**

You wouldn't use the same oil filter twice, would you? Then why even consider reusing the same gasket? Once a gasket has been installed and compressed, it loses some of its ability to seal. Not to mention can be affected by heat, deformation, peeling and other abuse.

Regular aftermarket gaskets use a variety of cheap materials that offer inconsistent sealing results. RMSTATOR performance gaskets comply with the same standards as OEM gaskets. We use the materials prescribed by the standard on every gasket and make sure the properties are always the same.

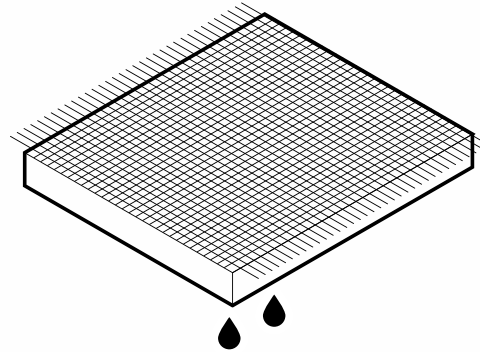
## WHAT MAKES THE DIFFERENCE

### OEM SPECIFICATIONS

OUR GASKETS FEATURE A MEDIUM DENSITY MATERIAL THAT CONFORMS WELL TO IRREGULAR FLANGE SURFACES AND RESIST CRUSHING AT HIGH FLANGE PRESSURES. THEY ARE DESIGNED FOR SEALING OFF OILS, FUELS, AND WATER IN APPLICATIONS WITH SHORT DURATION, MAXIMUM TEMPERATURES UP TO 180°C (350°F).

### HIGHER MATERIAL DENSITY

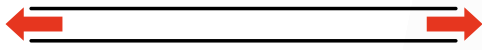
Our gaskets have less probability of leaking at the same pressure.



RMSTATOR GASKETS: 0.87 G/CC

## MINIMUM TENSILE STRENGTH

Our gaskets will resist internal pressure better.

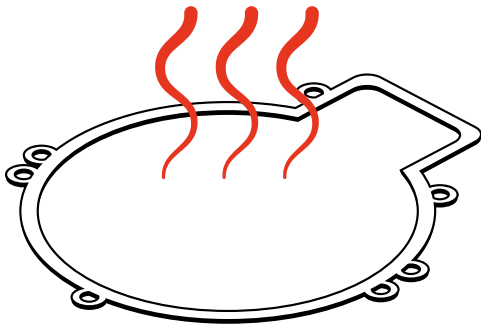


RMSTATOR GASKETS: 8.62 MPa



## MAXIMUM TEMPERATURE

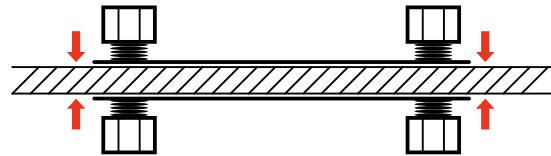
Our gasket material will maintain its sealing properties at higher temperature.



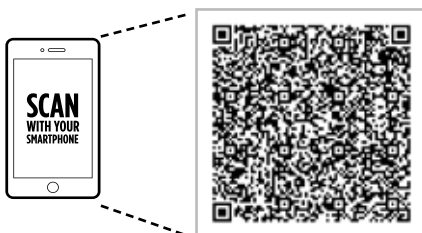
RMSTATOR GASKETS: 180°C

## COMPRESSIBILITY

Our gasket material will maintain its sealing properties even when compressed.



RMSTATOR GASKETS: 28-42 %



Shop gaskets at [www.rmstator.com/gaskets](http://www.rmstator.com/gaskets)

# QUALITY CONTROL

We understand that dead on arrival (DOA) parts cost dealers and mechanics time and money, and lead to unhappy customers. That's why every product we manufacture goes through a thorough 3 stage testing and quality control process to eliminate DOA products.

RMSTATOR 3 stage testing & quality control process:

## 1. OEM CHARACTERISTICS MAPPING:

We put the OEM part on our computerized modeling machine to create a map of the OEM part and see exactly how it works.

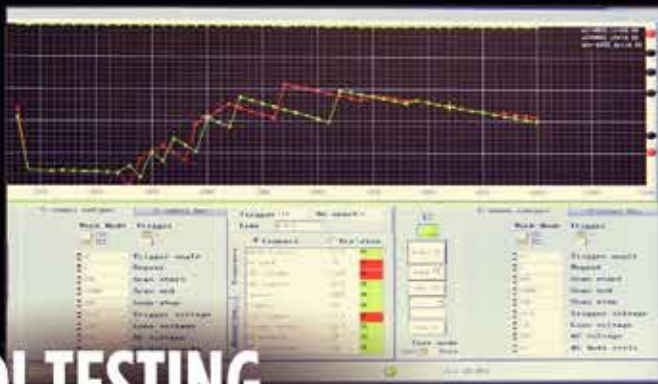
## 2. PROTOTYPE CONFORMITY TESTING:

We make sure the electrical model of our part is the same as the OEM one to ensure complete fitment and quality up to our standards.

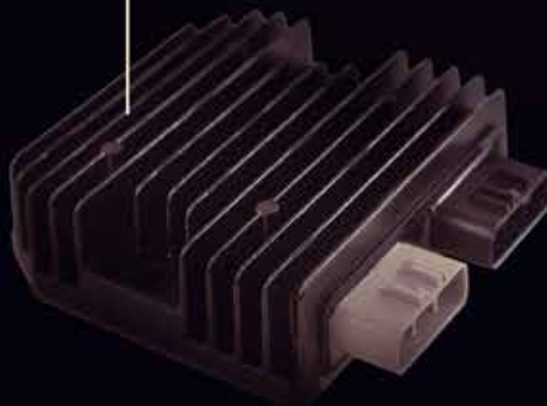
## 3. FINAL QUALITY CONTROL PROCESS:

Every component endures an aggressive testing procedure to confirm that the production parts can be shipped to our clients.

### CDI TESTING



### REGULATOR TESTING

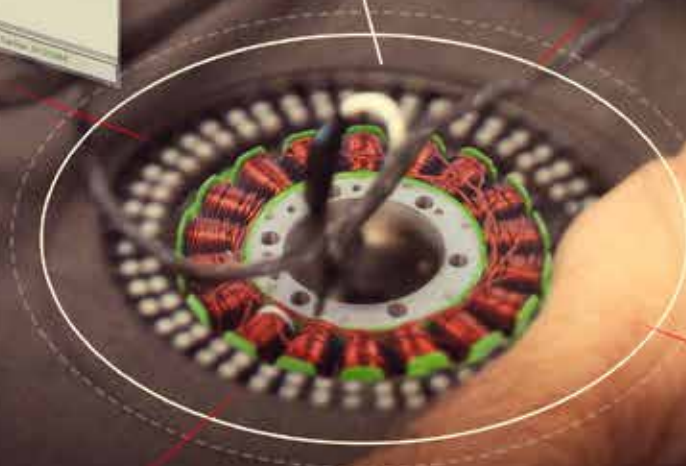


# TESTS

OUR STATOR QUALITY CONTROL TESTS FOR POLARITY, RESISTANCE, SOLDERING AND INSULATION. FAILING IN ANY OF THESE TESTS MEANS THE ENTIRE BATCH IS REJECTED.

OUR TESTING FACILITIES DO NOT RELY ON MULTIMETER RESISTANCE TESTING FOR QUALITY CONTROL. WE HAVE INVESTED IN STATE OF THE ART TESTING EQUIPMENT TO ENSURE THAT EVERY PRODUCT MEETS OUR STRICT QUALITY CONTROL STANDARDS.

## STATOR TESTING

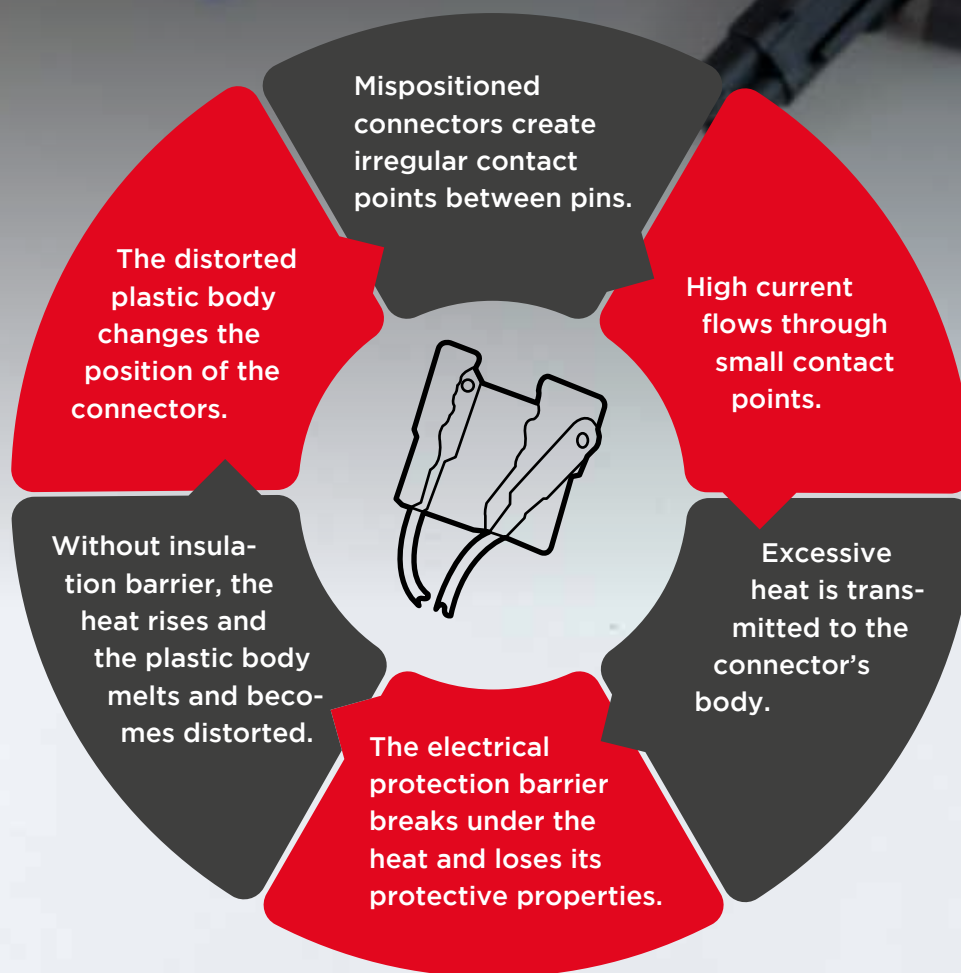


A technician in a grey t-shirt and blue overalls is shown in profile, working on a large, complex motor assembly. The technician's hands are visible, holding and adjusting a component of the motor. The background is a blurred industrial setting with various mechanical parts and tools. The overall image has a dark, muted color palette.

# TROUBLE- SHOOTING

# Bad connectors are the most frequent cause of electrical problems.

When replacing an electrical component, make sure to check all your connectors to avoid falling into the melted connectors circle of death.



## THE SOLUTION TO THIS PROBLEM:

Inspect each connector before replacing any electrical components.

### STEP 1

If corrosion is just beginning, use sand paper to clean the terminals (pins). This will create a better contact and eliminate problems in the future. A corroded terminal/pin is one of the most frequent causes of melted connectors. This may result in electrical failure of the ignition or charging systems parts.

### STEP 2

If the connector is melted or if the corrosion on the terminals is too severe, remove all connectors and terminals and replace them with one of our brand new connector kits (includes male & female connector's pins). RMSTATOR has made this task easy. Simply use our ratchet crimping tool (Part #RM10002) our high intensity soldering station (Part# RM10003) one of our connector kits.

Always use high quality dielectric grease that is resistant to high temperature on all electrical connections to avoid future problems.



**RM10002**

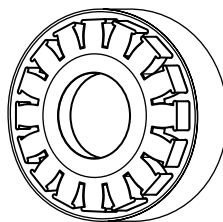


**RM10003**

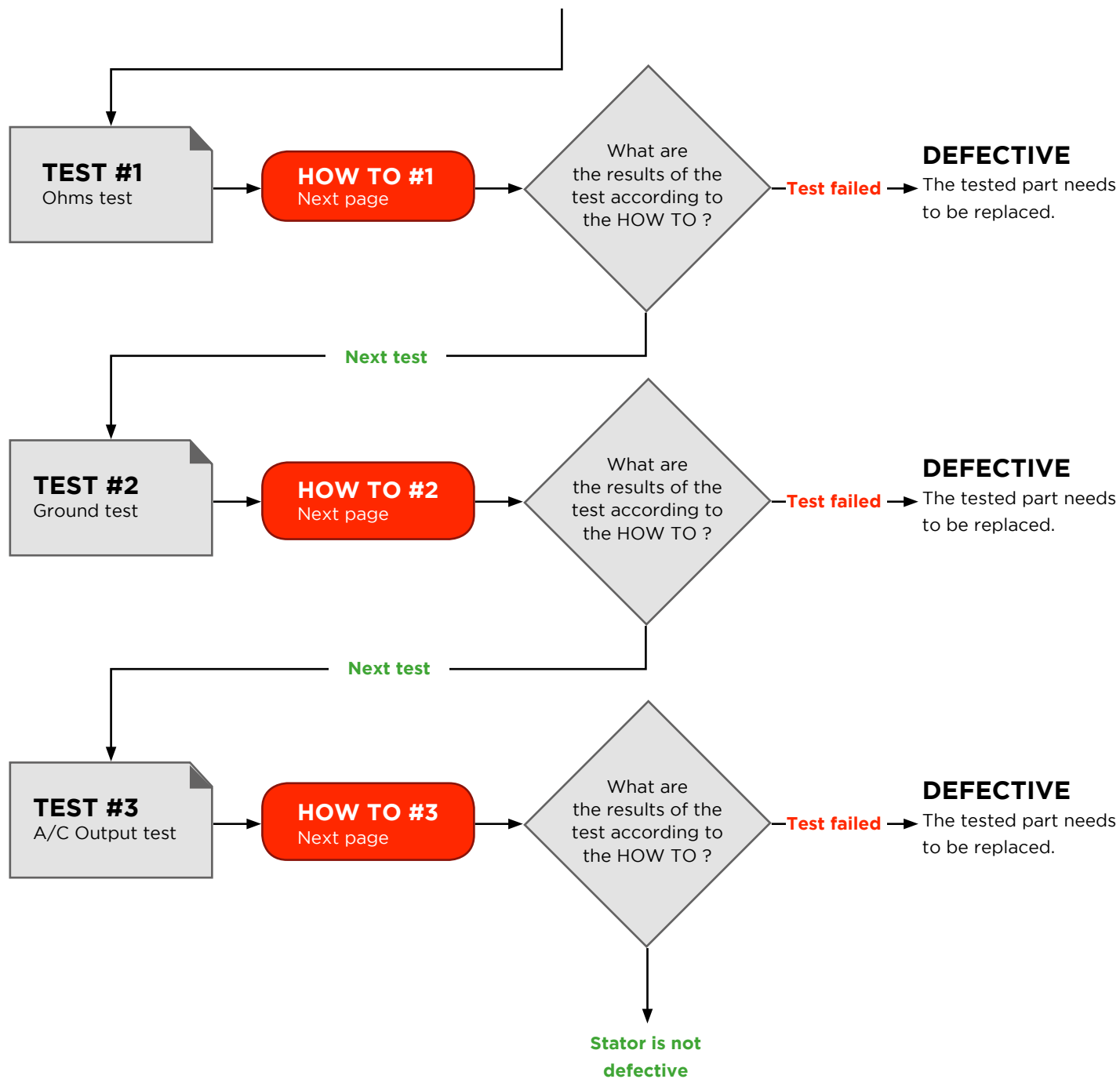


**Dielectric grease**

Shop connectors at : [www.rmstator.com/connectors](http://www.rmstator.com/connectors)

**GENERATOR**

We strongly recommend you go through all 3 tests to eliminate any kind of stator issues.



**Test #1 - Ohms test**

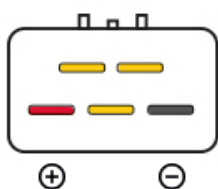
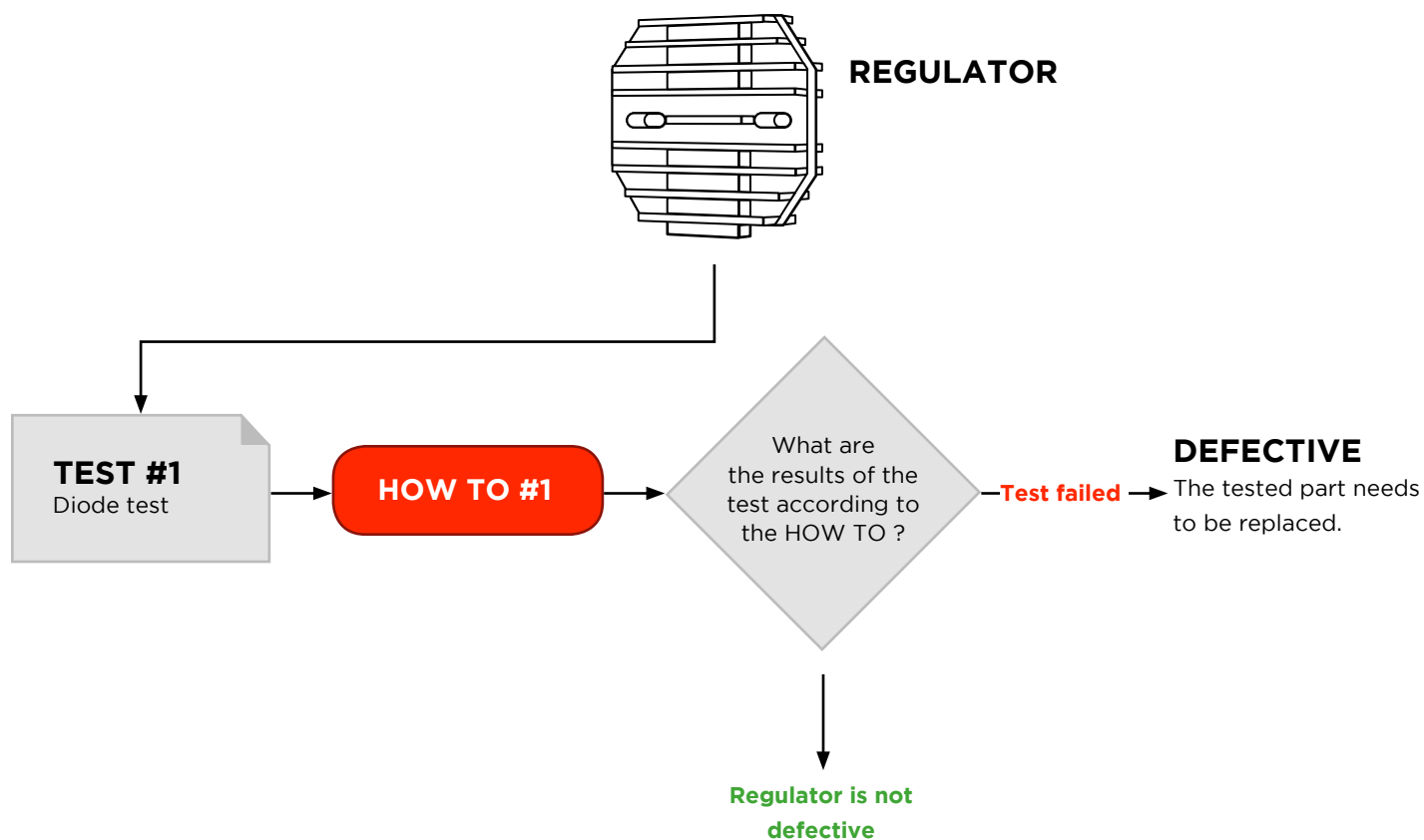
- Set your meter on Ohms.
- Test between each lead of the three-wire plug from stator. You must have the same reading on each combination of wires. (1 to 2 / 2 to 3 / 3 to 1 systematically in the plug)

**Test #2 - Ground test**

- Set your meter on Ohms.
- Take the negative lead of the meter and connect it to ground on the engine.
- Take the positive lead on the meter and test between three wire phases on the plug of the stator, one by one. You shouldn't get any reading on the meter. It should stay OL (Open Loop). If you have a reading (Example: 0.1) the stator is defective and needs to be replaced.

**Test #3 - AC Output test**

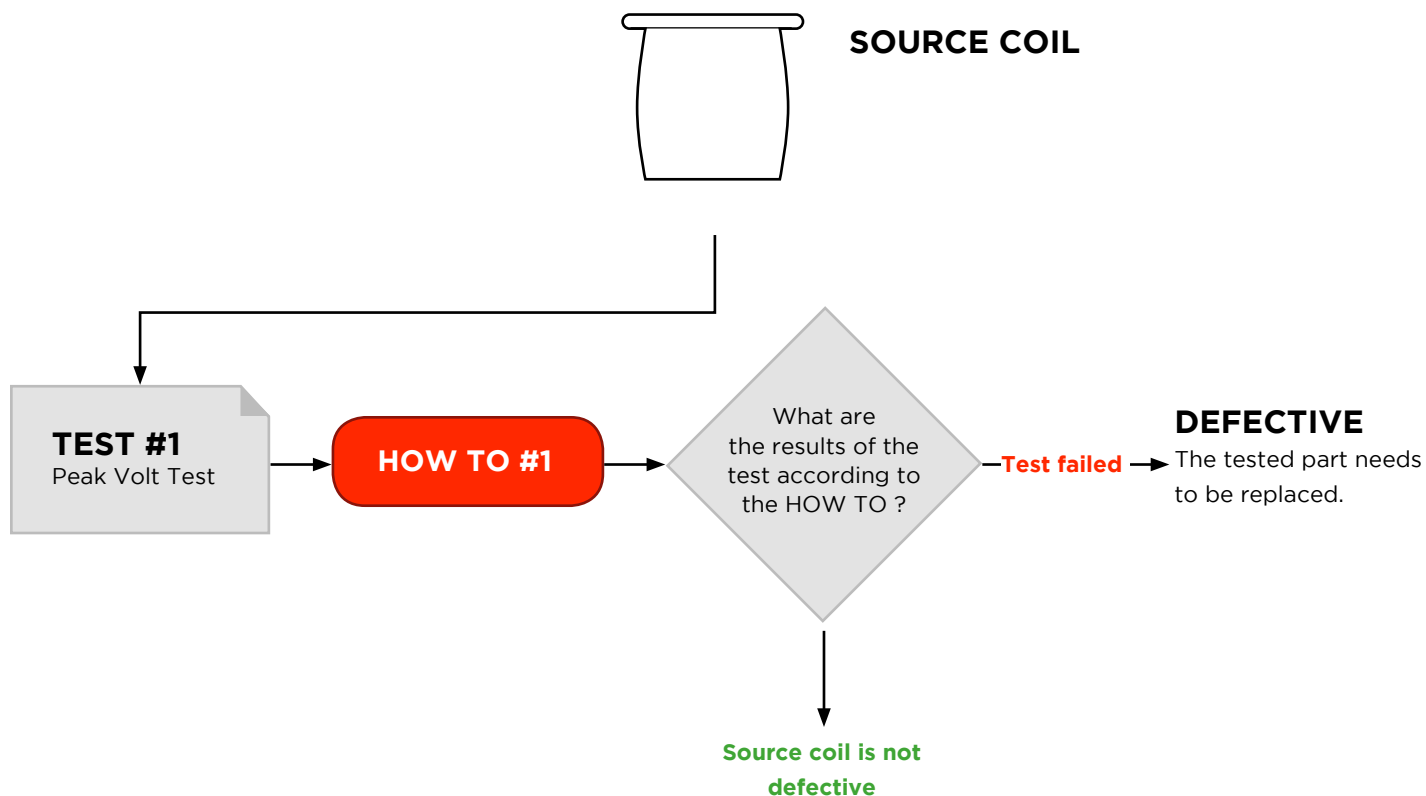
- Set your meter on AC Volts.
- Test between each lead of the three-wire plug from stator. (1 to 2 / 2 to 3 / 3 to 1 systematically in the plug)
- Start your machine. When it's running you should have the same amount of voltage coming out between each combination. (Example: 20v/20v/20v) If you have for example a reading of 20v/20v/04v, the stator is defective and needs to be replaced.

**Figure 1****Test #1 - Diode test**

- Set your meter on Diode mode.
- Locate the positive and negative lead of your regulator. (See figure 1)
- Place the POSITIVE lead of the meter to the NEGATIVE lead of the regulator.
- With your negative meter lead, touch all 3 phase pins on your regulator. Your meter should read between 0,400 and 0,600 diode on all three entries. If not, (Example: 0,475/0,475/0,280) your regulator is defective.
- Place the NEGATIVE lead of the meter to the POSITIVE lead of the regulator
- With your positive meter lead, touch all 3 phases pins on your regulator. Your meter should indicate OL (Open Loop) on all three entries. If it does not, your regulator is defective.

Mosfet regulator rectifier:

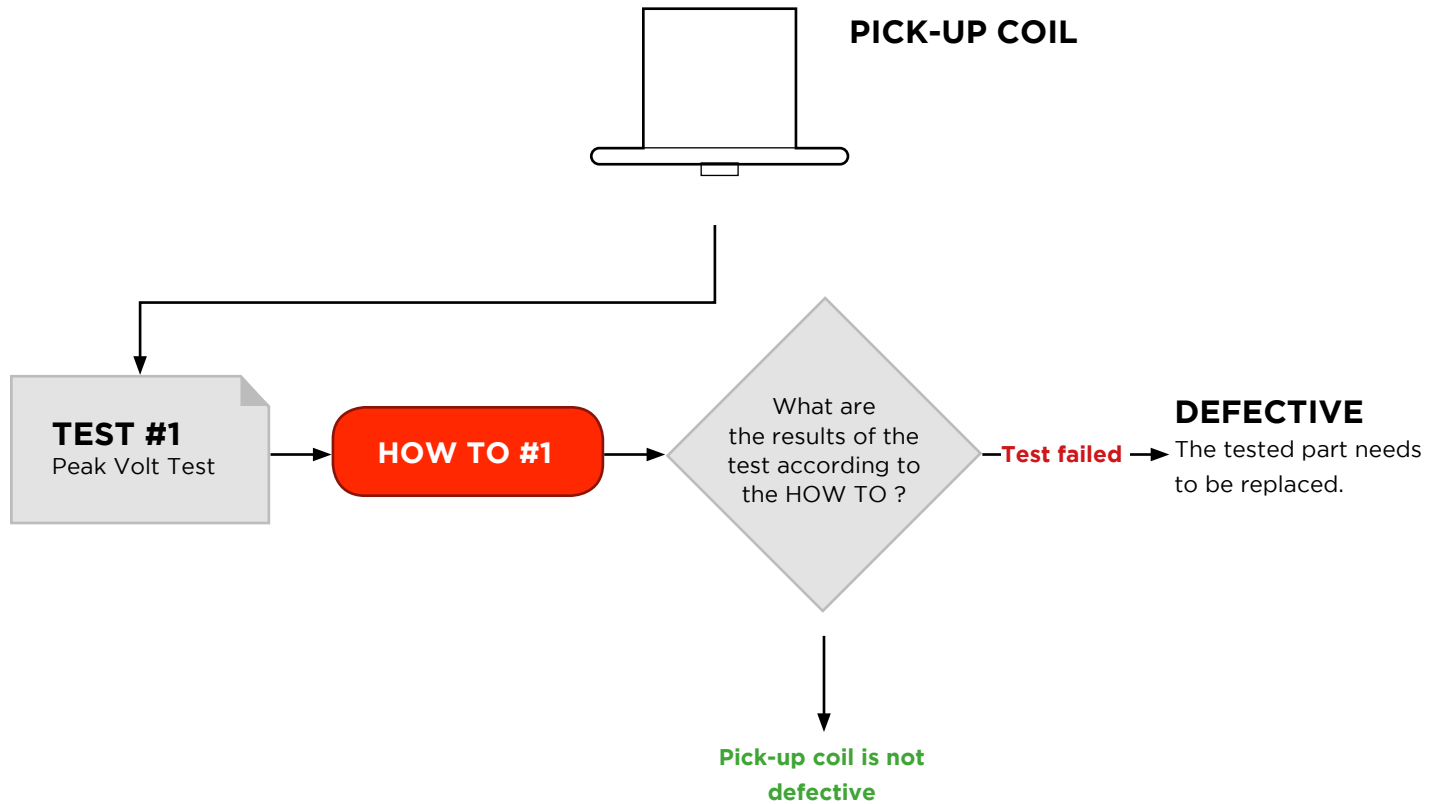
For Mosfet regulators, it will be the same test but diode scale will change. It could be lower than 0,400. Just remember that all diodes need to be equal.



Shop RM22980 at :  
[www.rmstator.com](http://www.rmstator.com)

### Test #1 - Peak volt Test

- Set your meter on DC volts mode.
- For this test you will need a RMSTATOR Peak Voltage Adapter. (RM22980)
- Plug the adapter into your meter, and your leads to your source coil harness.
- Start your vehicle.
- The voltage needed to either pass or fail the source coil test depends on the year / make / model of your vehicle. It usually is half the resistance of the source coil plus or minus 10v. For example, on a Yamaha Warrior 350 -1995, the source coil is 320 ohms. For that specific model you should get a reading between 150 and 170 volts at cranking speed to charge the CDI Box properly. If it's less than 150 volts, then the source coil is defective.



Shop RM22980 at :  
[www.rmstator.com](http://www.rmstator.com)

### Test #1 - Peak volt Test

- Set your meter on DC volts mode.
- For this test you will need a RMSTATOR Peak Voltage Adapter. (RM22980)
- Plug the adapter into your meter, and your leads to your pick-up coil harness.
- Start your vehicle.
- The reading should be at least 4 volts to trigger the CDI Box. If not, the pickup coil is defective.

**Three-Phase Generator**

A three-phase generator is a charging system that utilizes three separate coils and a permanent magnet to induce three individual AC voltage outputs, each on its own circuit. A regulator rectifier is then used to convert the three separate AC inputs to one single DC voltage output.

**Timing Sensor/Pickup Coil**

The timing sensor or pickup coil consists of a permanent magnet surrounded by a coil of fine electrical wire that produces a high voltage/low amperage signal which is sent to the CDI to determine when the secondary voltage (spark) for ignition is to be released.

**Regulator Rectifier**

A regulator rectifier is a device that converts AC input voltage to a constant DC output (rectifier) and limits that voltage (regulator) to a level useable by the vehicle's electrical system, usually no higher than about 14.4 VDC.

**Wiring Harness**

A series of electrical conductors (wires) used to connect various parts of the vehicle's electrical system.

**Battery**

A reserve of DC voltage used to supply electrical needs when the vehicle's charging system is not currently generating power or cannot keep up with electrical demands.

# BETTER TOOLS FOR A BETTER DIAGNOSTIC

100% of bad diagnostics or botched jobs result in having to redo the repair work. Don't lose money or your reputation on a failed job! Get the right tools, learn to use them well and your next electrical job will be bulletproof!

## DIGITAL MULTIMETER + VOLTAGE PEAK READING DVA ADAPTER

**RM22980**

33

## PROFESSIONAL GRADE RATCHET WIRE CRIMPING PLIERS

**RM10002**

32

## DIELECTRIC GREASE

34



## PROFESSIONAL GRADE SOLDERING STATION

**RM10003**

32

## FLYWHEEL PULLERS

35

## CONNECTORS KIT

33

## CRANKCASE COVER GASKETS

34

## TOOLS

### RM10002

#### Professional grade Ratchet Wire Crimping Pliers - 9 inches

---



#### Why do you need it?

Crimping terminals on wire ends with regular pliers can create weak zones that will result in a terminal detachment or bad contact. If it happens, your connector will enter the Connectors Circle of Death and deteriorate exponentially. Dedicated crimping pliers will evenly attach the terminal to the wire giving you the best connection possible.

#### Description

- Position 1: 0.5 to 1.0 mm
- Position 2: 1.5 to 2.5 mm
- Position 3: 4.0 to 6.0 mm
- Suitable for insulated terminals
- One year limited warranty

### RM10003

#### Professional grade Soldering Station

---



#### Why do you need it?

Unsoldered wires can easily disconnect from the vibration of the vehicle. Not soldering your wires will allow for corrosion to occur, creating resistance in the circuits. When you need to repair a severed wire and you can't use a connector, you **MUST** solder the wire and put a shrink tube on it afterwards.

#### Description

- Temperatures up to 70 watts.
- Ideal for soldering electronic components.
- Adjustable digital temperature controlled by reliable closed-loop sensors for super-fast temperature rising and keeping it steady.
- Powerful soldering iron with top quality Japanese made ceramic heating element.
- Slender, lightweight ergonomic iron handles.
- Large LED displays to show real-time temperatures. Easy to operate.
- Compact design takes up less bench space.
- One year limited warranty.

## TOOLS

### RM22980

**Digital Multimeter +  
Voltage Peak Reading DVA Adapter**

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#### Why do you need it?

You will not be able to precisely diagnose a stator without a DVA adaptor. It is a **MUST HAVE** to get the right voltage reading coming out of a running stator. A DVA adaptor is also known as a peak reading adaptor. Small engine ignition systems use permanent magnets to make electricity. This electricity travels down the wires very quickly and in «spikes» so to speak.

A DVA captures those “spikes” and allows a standard digital multimeter to read those voltages. Without a DVA adaptor, a multimeter will either record a low voltage or no voltage at all. Powersport ignition systems work on “peak” voltages, which is why a DVA is known as a “peak reading” adaptor. Multimeters read average voltages, not peak, so that is what our adaptor allows you to do.

## CONNECTORS

**RMSTATOR has various  
connectors kit for all your needs.**

---



#### Why do you need it?

Read the Connector Circle of Death at page 23. Corroded or misaligned connectors tend to overheat, which rapidly deteriorates the thermal protection. This causes most of the electrical problems in a powersport vehicle and it is difficult to pinpoint the exact location of the failing.

To prevent future electrical problems, we strongly suggest that you change the opposite connectors of the part you are replacing to ensure a secure connection and eliminate potential problems.

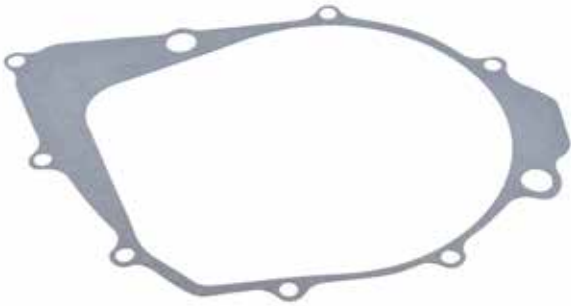
Shop at :  
[www.rmstator.com](http://www.rmstator.com)

## TOOLS

### GASKET

**RMSTATOR has a wide selection of gaskets.**

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Shop at :  
[www.rmstator.com](http://www.rmstator.com)

#### Why do you need it?

You wouldn't use the same oil filter twice, would you? Then why even consider reusing the same gasket? Once a gasket has been installed and compressed, it loses some of its ability to seal. Not to mention can be affected by heat, deformation, peeling and other abuse.

### GREASE

**Don't forget to grease up your connectors!**

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#### Why do you need it?

Dielectric grease protects metallic terminals in connector's ends from dirt, water, mud and other elements. It plays a key role in preventing the Connectors Circle of Death by stopping the corrosion on terminals.

We strongly recommend you apply dielectric grease each time you disconnect a connector and reconnect it.

## TOOLS

### PULLER

**Essential for any  
flywheel extraction.**

---



#### **Why do you need it?**

Most of the time, removing a flywheel or rotor is painless. But sometimes corrosion, overtorqueing the fixing bolt, or heat-cycling can give you a hard time removing the flywheel. All too often see mechanics use a large breaker bar or air impact tools to ease the flywheel off. These two techniques will damage the flywheel, the flywheel puller, or the crank. Avoid using them if you want to avoid costly mistakes.

Make sure you have the right tool for the job. Attempting to remove a flywheel without a flywheel puller can cause significant and costly damage to your crankshaft. Be sure to lubricate the necessary areas liberally and use only the appropriate hand tools. Always wear safety equipment such as gloves and eye protection. Contact RMSTATOR with any questions regarding the use of our flywheel pullers.

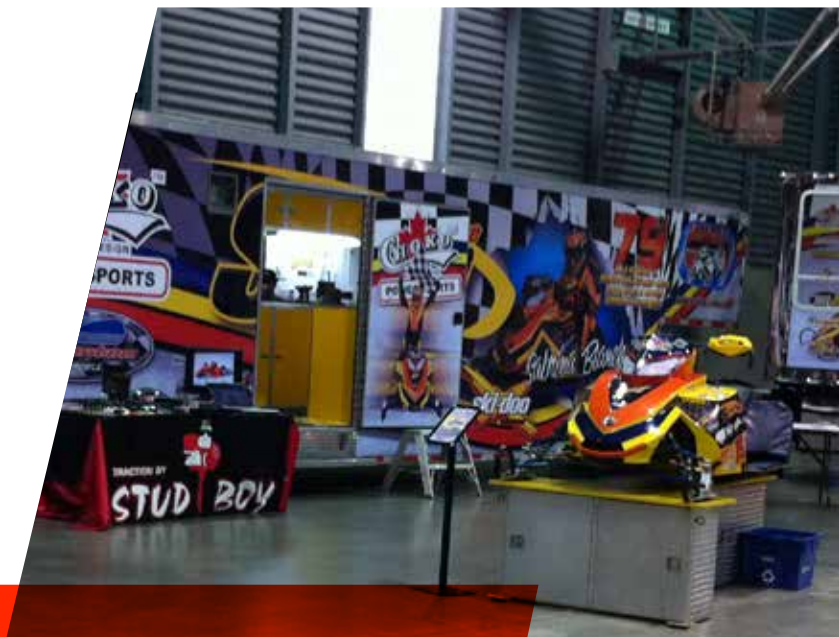
**We are currently expanding our puller inventory.  
Can't find the one you're looking for? Contact us at:  
[support@rmstator.com](mailto:support@rmstator.com)**



## RMS RACING

At RMSTATOR, we love supporting race teams in their quest for victory. We can manufacture custom stators with more output, better performance and greater reliability. Because losing is just not an option!

Interested in receiving race support from RMSTATOR? Send us an email at [support@rmstator.com](mailto:support@rmstator.com)





# TESTIMONIALS

## GEORGES SAMSON, PRESIDENT

Samson Racing / Circuit Pro Tour 2013

Their experience in understanding, diagnosing, repairing and now manufacturing stators for powersport vehicles means everything when trying to produce more horsepower at infernal RPMs. RMS RACING technicians know what a racing team needs. They know how to identify faulty ignition systems, suggest creative solutions and reach higher performance levels by continually following-up on their products performance and improving it. At RMS RACING, it's all about the quality of the product and the people. They are the power in powersports!

[www.cptracing.ca](http://www.cptracing.ca) | [www.facebook.com/CPTracing](https://www.facebook.com/CPTracing)  
[www.facebook.com/samson.racing](https://www.facebook.com/samson.racing)

## PHILIPPE SOUCY, SNOWMOBILE RACER

ZoneXtreme.net / Snowmobiles.ca

When you embark on an adventure like snowmobile drag racing on water, it's the start of a long project that necessitates a lot of sweat, blood and tears...

Oh and lots of money! One of the most important things in this sport is to surround yourself with good people and sponsors. I had the chance to find both with RMSTATOR and they were capable of offering the right solution to optimize the ignition for my sled. A small business in Coaticook, Quebec, Canada owned by 2 passionate powersport enthusiasts who saw the opportunity in this segment of the market and decided to open up shop, RMSTATOR is ambitious and generous and encourages new racers and race teams by supporting different projects with time, parts and money. These guys know how to listen and then diagnose the problem with you, then, using the equipment and experience they have, they are able to deliver a high performance and reliable product. I can assure you that Sean and his team have answered all my questions quickly and efficiently. In the racing world, performance is not a synonym of reliability especially in electrical parts. Meticulous professionals with over 20 years of experience added to the constant following up definitely shows the level of interest RMSTATOR has in the racing world and in their teams. They went above and beyond what was required to get the job done! I strongly suggest you try them, if you wanna win!!!! Thanks.

# CUSTOMER CARE &



# RMSTATOR SERVICE +

At RMSTATOR we sell great products. And great products need to generate great customer satisfaction. This is why we offer RMSTATOR SERVICE+ to all of our customers, one of the best customer satisfaction programs of the industry.

**RMSTATOR SERVICE+ has only one rule:**  
**“ Always keep the customer satisfied ”**

## Terms of service

### **Defective products submitted within 30 days of the purchase date**

Completely free replacement or refund of any defective RMSTATOR products. If it's our fault, we will take care of it, no questions asked.

**Defective products submitted between 31 days and 1 year following purchase date.** Free replacement of any defective RMSTATOR product. You only pay for the shipping of the product. If it's our fault, we will take care of it, no questions asked.





### **Product returns submitted within 30 days of the purchase date**

Replacement or refund of any unopened, unused RMSTATOR products. You only pay for the shipping of the product. If it's ordered by error, we will take care of it, no questions asked.

**Product returns submitted between 31 days and 1 year following purchase date.** Replacement of any unopened, unused RMSTATOR products. You pay for the shipping of the product and 20% restocking fee. If it's ordered by error, we will take care of it, no questions asked.

## Conditions to be eligible to RMSTATOR Service+

1. You must submit your warranty / return case to RMSTATOR BEFORE sending your part to us. Upon the receipt of your request we will :

 Ask for a picture of the defective product	 If unavailable, we will send you an authorization number for you to return the defective part	 Evaluate the part and establish the cause of the defect	 Apply appropriate rule of RMSTATOR Service+
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2. The provided return authorization number must be clearly shown on the return box. If not, the return will be refused and the part sent back to you.
3. The return authorization number is valid for 20 days.
4. The warranty will be void if the part shows signs of misapplication, rough handling, mistreatment, gear tooth failure or any other alterations.
5. A \$50 fee will apply if returns or warranties are sent to RMSTATOR by Collect shipping
6. We will test the returned part for defect. If it is not deemed as faulty, the part will be shipped back to the sender and the sender will be charged the \$25 testing fee.
7. To be eligible for an unpaid replacement, you must prove that the part is defective. Without proof, the replacement part will be charged. If the returned part is defective, you will be refunded.



# REPAIR SERVICE

## WHERE IT ALL BEGAN

20 years ago we started our company solely repairing stators for dealers across North America. And we still do.

A few things have changed along the way but our fast turn around and time and 1 year warranty remain.

One thing that has changed is our inclusion of state of the art testing equipment in our diagnosing process. This equipment allows us to diagnose your part before repairing it. It not only confirms failure but pinpoints the issue so we can repair the issue properly.

We also use our repair service in order to see, touch, test and probe new types of electrical failures that might arise in today's industry.

Call **1-877-838-1399** for any questions about rebuilt stators.



## LIGHTNING FAST REPAIR

OUR REPAIR SERVICE IS STILL LIGHTNING FAST; FAST ENOUGH TO HAVE YOUR VEHICLE READY FOR THE NEXT WEEKEND RIDE.

# RMSTATOR - NEW DEALER APPLICATION

## THE FOLLOWING MUST BE INCLUDED WHEN YOU RETURN APPLICATION:

- ☐ Completed dealer application.
- ☐ Pictures of the storefront (including sign), showroom service area, and retail/parts area (REQUIRED)
- ☐ Photocopy of state license to sell vehicles and/or parts and accessories. (USA dealer)  
OR Photocopy of tax resale certificate. (USA dealer)
- ☐ Photocopy of tax resale certificate. (Canadian dealer)

Mail application packet to : **541 Main West, Coaticook (Quebec) Canada, J1A 1R2**

If you have questions call toll free : **1-877-838-1399**

Compagny name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ ZIP/Postal code \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Owner's name \_\_\_\_\_ Buyer's name \_\_\_\_\_

Email address \_\_\_\_\_ Website \_\_\_\_\_

**TYPE OF BUSINESS** ☐ Motorcycle ☐ ATV ☐ Harley-Davidson ☐ Watercraft ☐ Snowmobile ☐ UTV/SXS

Please indicate all categories that apply to your shop:

### FRANCHISE MOTORCYCLE DEALER (FACTORY AUTHORIZED, NEW UNITS ONLY)

☐ BMW ☐ Ducati ☐ Harley-Davidson ☐ Honda ☐ Kawasaki  
☐ Suzuki ☐ Triumph ☐ Yamaha ☐ KTM ☐ Other \_\_\_\_\_

### FRANCHISE ATV, UTV/SXS DEALER (FACTORY AUTHORIZED, NEW UNITS ONLY)

☐ Honda ☐ Kawasaki ☐ Polaris ☐ Suzuki ☐ Yamaha ☐ Arctic Cat ☐ Autre \_\_\_\_\_

### FRANCHISE PERSONAL WATERCRAFT DEALER (FACTORY AUTHORIZED, NEW UNITS ONLY)

☐ Kawasaki ☐ Polaris ☐ Sea-Doo ☐ Tiger Shark ☐ Yamaha ☐ Wet Jet  
☐ Other \_\_\_\_\_

### FRANCHISE SNOWMOBILE DEALER (FACTORY AUTHORIZED, NEW UNITS ONLY)

☐ Arctic Cat ☐ Polaris ☐ Ski-Doo ☐ Yamaha ☐ Other \_\_\_\_\_

### INDEPENDENT SHOP

☐ Parts/Accessories ☐ Service/Repair ☐ Builder/Assembler ☐ Brand Focus

**HOW DID YOU LEARN ABOUT RMSTATOR?** \_\_\_\_\_

**S.S.N. - N.A.S. (Optional)** \_\_\_\_\_

**DATE OF BIRTH** \_\_\_\_\_

**FOUNDED IN** \_\_\_\_\_

**PROJECTED ANNUAL SALES VOLUME (CONFIDENTIAL INFORMATION)** \_\_\_\_\_

**OTHER COMMENTS** \_\_\_\_\_

**NOTES (OFFICE USE ONLY)** \_\_\_\_\_

# TERMS AND CONDITIONS

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## Limited Warranty:

- » All RMSTATOR products are covered by a 1 year limited warranty.
- » The warranty applies only on the original purchased part.
- » The warranty is non-transferrable.
- » The warranty is available only at the point of purchase.
- » The warranty is non-applicable on bulbs.
- » The defective product will be replaced in its equivalent part or in factory labour. We do not warranty gear tooth failure.
- » The warranty will be void if one of the following applies: misapplication, rough handling, mistreatment or the part has been altered.
- » Return merchandise authorization (RMA) number must be obtained before any part is shipped back to us or it will be refused.
- » A copy of the invoice must be included in the box. If you misplace it, you can obtain another copy by logging into your personal account at [www.rmstator.com](http://www.rmstator.com) and retrieving it through your history.
- » The faulty part must be shipped back to us for testing and diagnostic purposes. If you are under time constraints and you have diagnosed the part as faulty, you can benefit from our advanced replacement service.
- » Be advised RMSTATOR will not cover shipping costs for returned products. You are responsible for all shipping costs.
- » If you are uncertain of your diagnosis, we can test your OEM (original) components for a \$25 fee plus shipping and handling costs.
- » Be advised, if the part is tested and it is not deemed as faulty, the customer will be billed a \$25 testing fee plus all shipping and handling costs and the part will be shipped back to the buyer. Allow a 14 day turn-around time including shipping for all requests.

## Returns:

- » Returns only apply to new and unused products.
- » Return authorization must be obtained before parts are shipped back to us or they will be refused.
- » The product must be shipped either in its original box or a box with the same dimensions.
- » The invoice must be included in the box. If you lose it, you can obtain another copy by logging into your personal account at [www.rmstator.com](http://www.rmstator.com) and retrieving it through your history.
- » A fee of 20 percent of the price of the part will be applied for administrative and handling costs if the request is opened 30 days after the purchase date.
- » The customer is responsible for all shipping costs. The only exception would be if a shipping error occurred.
- » Allow a 14 day turn-around time including shipping for all requests.
- » If you are under time constraint, you can benefit from our advanced replacement program.

**NOTE :** The TERMS AND CONDITIONS are subject to change without notice.

# TERMS AND CONDITIONS

## Disclaimer:

- » RMSTATOR's maximum liability will be for the dollar amount the buyer paid for the part.
- » RMSTATOR will not be held liable for any indirect, consequential, special, incidental, exemplary or punitive damages or similar damages or losses of any nature whatsoever, including without limitation, for any loss of clientele, sales, profits or revenues, regardless of whether arising from breach of contract, warranty, tort, delict, quasi-delict, strict-liability or otherwise.
- » Under no conditions or events will RMSTATOR be accountable for any personal injury or property damage.
- » We put forth all efforts to provide accurate prices and product application, we reserve the right to change pricing and make the necessary changes to our website and warranties without notice.
- » All manufacturers' names are used as reference only.
- » Use and purchase of RMSTATOR products constitutes acceptance of the terms and conditions of this warranty. Neither performance by RMSTATOR nor receipt of payment shall be deemed or construed as acceptance by RMSTATOR of customer's additional or different terms of conditions unless otherwise agreed to in a written document signed by an authorized representative of RMSTATOR.

## Advanced warranty replacement:

- » Advanced warranty replacement only applies to parts that failed and are still under the RMSTATOR limited warranty. To benefit from the advanced warranty replacement program, you must contact customer service, fill out a return authorization form and purchase a replacement part. The refund will be granted when we receive and test the part. Once deemed faulty we will apply your refund.
- » Be advised, if the part tests "good" a fee of \$25 will be applied for testing and administrative costs and the part will be returned to the buyer. Customers that decide to benefit from the advanced warranty replacement program and have misdiagnosed their part as faulty may end up with two parts.
- » You have 30 days from the time of purchase to return the original defective part to us. If it is not received within that time frame, no refund will be possible. All normal warranty procedures must be followed.

## Advanced Replacement:

- » Advanced replacement only applies to new and unused parts.
- » Be advised, if the part was used you may end up with two parts.
- » To benefit from the advanced replacement program, you must contact customer service, fill out a return authorization form and purchase a second part. The refund will be granted when we receive the part.
- » You have 30 days to return the original part to us. If it is not received within that time frame, an administration fee of 20 percent will be deducted. All normal return procedures must be followed.

**NOTE :** The TERMS AND CONDITIONS are subject to change without notice.