

# VFORCE 3

## WHAT'S NEW ON THE VF3



### CHANGES ON THE VFORCE3:

While the VForce3 reed valve system may look barely changed for 2004, nothing could be further from the truth. The VForce3 was developed with direct feedback from riders such as Factory Honda's Ricky Carmichael and Factory Kawasaki's James Stewart. There is no substitute for working with world class athletes in product development and testing.

So what exactly is new and different on the VForce3? Let's take a look.

- **Symmetrical petals:**

The VForce3 now uses symmetrical reed petals. No longer will you need to be concerned with having both "inner" and "outer" reed petals.

- **Super quick petal changes:**

The VForce3 incorporates the industry's first and only patented snap together reed valve design. The entire assembly is completely screw free, meaning that when reed petals need changing the job is now literally a "SNAP".

- **Custom air guides:**

Custom air guides specific to each individual application ensure the maximum airflow and benefits of the VForce3 reed valve system in your motorcycle or ATV.

- **Advanced composite technology:**

The VForce3 utilizes an advanced composite technology with an all new carbon fiber lay-up and resin system. This new lay-up was designed entirely around the reed cage design of the VForce3 for superior performance and response.

- **Redesigned reed stops:**

A new improved reed stop design completely eliminates the need for retaining screws. This new feature now removes any possible chance of a failure.

- **Airfoil technology:**

Airfoil shaped (flat on bottom/

curved on top) reed tip surface increases velocity of fuel/air mixture as it passes through, creating the optimum fuel atomization.

### FAQ'S FOR VF2 & VF3:

Here is a compilation of some commonly asked questions that should clear up any lingering concerns you may have.

**Q: I've noticed both the VF2 and the VF3 are available concurrently. What's the reasoning for that?**

**A:** The VForce3 is mainly being produced for current model applications. Since we know there are plenty of folks out there on slightly older models we'd still like to be able to offer VForce technology to those riders. As a result we have continued to offer and fully support the VForce 2 reed valve system.

**Q: The new VForce3 does not offer adjustable reed stops, why is that?**

**A:** With the extensive research and testing done on both the reed cage design and carbon fiber lay-ups we feel we have found the optimum combination that constantly tested better than any other possible combinations. Because we achieved a superior set up as dictated by our testing we felt it eliminated the need to offer a minor tension adjustment. As an added bonus this allowed us to explore the option of a screwless cage design, which as you can see, made it to production.

**Q: What can I expect after installing a VForce reed valve system?**

**A:** Typical gains are 5%+ more horsepower throughout the RPM range, depending on motor configuration. Added benefits also include stronger acceleration, crisper throttle response and wider peak horsepower. You can find more information about the VForce advantage on our website by visiting us at [www.mototassinari.com](http://www.mototassinari.com)

**Q: What is considered "normal" reed petal life?**

**A:** If you have used a VForce2 reed valve system in the past you are already aware how incredibly

durable our reed petals are. Our reeds offer the finest performance along with great reliability. Our newly designed, proprietary lay-up for our reeds, has proven to be extremely durable. We have done extensive testing with our new carbon fiber reed material and have been amazed by it's performance and durability. With that in mind here are some basic guidelines for reed life. For motorcycle and ATV's don't check them unless you feel a decrease in power. If, however, you suck dirt through your engine you would obviously want to inspect the reed valve carefully to insure there is no dirt in the valve, as this would lead to premature wear on the entire assembly. Otherwise if you are riding several times a week we would recommend changing them once a year. There really is no "stock" answer on how long reed petals should last. It is important to remember reed petals are a wear item in the same way a piston ring is considered a wear item. Also, every engine acts differently so there is always some variation in reed life.

**Q: Does Moto Tassinari offer any type of technical support?**

**A:** We sure do! We have technicians on hand from 8am - 5pm E.S.T Monday through Friday. They are happy to assist you with any installation or other technical questions you may have. To reach our technical department please call us at 603.298.6646.

**Q: Will I need to rejet?**

**A:** Typically, there is no need to rejet after installing the VForce reed valve system. If you have previously jetted your machine to work well with your stock reed valve you should have no problems. However, we do recommend that you check the plug(s) after your first ride to make sure that there is not a drastic change in plug color. We do not offer individual jetting guidelines due to the numerous variables that will affect your jetting... such as climate, elevation, other existing modifications and more.

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