

The following instructions will explain the assembly procedures for your "V2" MirageDrive™. "V2" MirageDrives have threaded masts / brass inserts in the sprockets and were delivered starting with 2009 serial numbers.

The "V2" ST Turbo Fin Kit includes the following parts

1. (2) ST Turbo Fins with clew adjustment hardware
2. (2) St Turbo Fin Threaded Masts
3. (1) Loc-Tite

The following steps will guide you through the removal of your old fins and installation of your new ST Turbo Fins.

Step 1: Mirage Fin and Mast Removal

To start, remove the small ring that holds the upper rear part of the fin to the drive and take out the pin. This will free up the end of the fin so that you can slide it off the mast. To remove the mast you need to look at the mast end where there is a slot for a blade screw driver or on newer V2 drives, a flat area to grip with vise-grip pliers. Unthread the masts from the sprockets. The masts are fairly snug in the sprockets and bonded with Loc-Tite, so a pair of vise-grip pliers can make things much easier. Grip and twist (unthread) the masts and pull them free from the sprockets. For very tight masts... Possibly clamp each mast in a vise and turn the drive itself to break the Loc-Tite bond.



Step 2: ST Turbo Mast Installation

The "V2" ST Turbo kit mast ends are threaded. Using the Loc-Tite, drip a small amount on the threaded ends of the masts just before insertion into the sprockets. Using Vise-Grips or pliers, grip on the flat area near the end of the mast and thread the masts all the way into the sprockets and seat tightly.

The Loc-Tite step will have to be re-done if the masts are removed or tensioned at any time after the initial installation.

Step 3: ST Turbo Fin Installation

Now that the masts are seated, slide the new ST Turbo Fins all the way onto the masts. The clew tension fitting (that is sticking up) will be held to the outhaul block by using the clevis pin and ring provided in this kit. Simply pass the pin through the outhaul block, the flattened end of the clew tension screw and finish the end of the pin with the lock ring.

Tuning Your ST Turbo Fins

The ST Turbo fins are equipped with adjustment knobs that allow you to change the tension of the fins and is located in the upper rear corner of each fin. By having more tension in the fins, they become stiffer and faster with more resistance on the pedals. With less tension on the fins, they will be more flexible with more torque and less resistance on the pedals. Turning the thumb screws down or closer to the outhaul block tightens the fins. Turning the screws out and away from the outhaul block loosens the fins. If your tension screw is too loose, a small amount of Loc-Tite can be added to the screw threads to hold the adjustment in the desired position.



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