

MirageDrive 180
Turbo Fin Kit
Instruction Manual

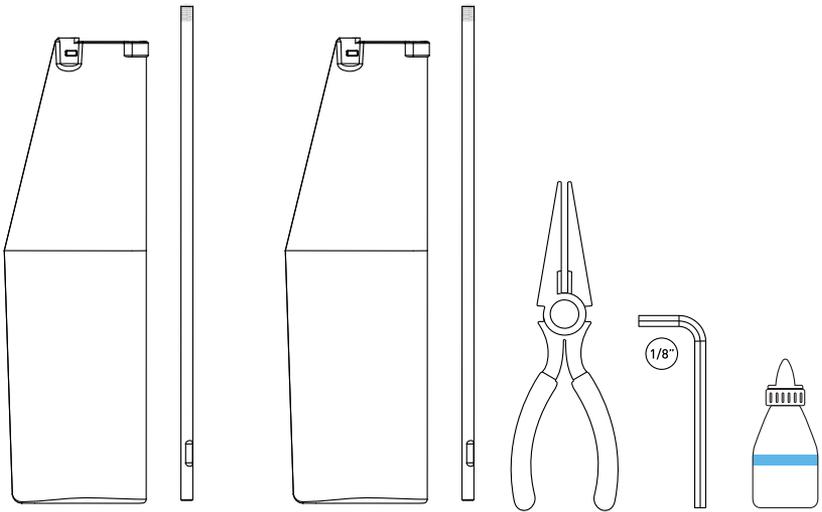


#72067001

The following instructions will explain the assembly procedures for your MirageDrive 180 Turbo Fin Kit.

The MirageDrive 180 Turbo Fin Kit includes the following parts:

1. (2) Fins
2. (2) Threaded Masts
3. (1) Threadlocker Loc-Tite



Additional tools required;

1x Needle nose pliers or ViseGrips _____

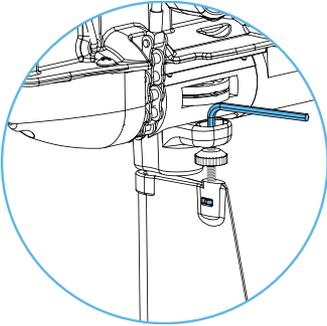
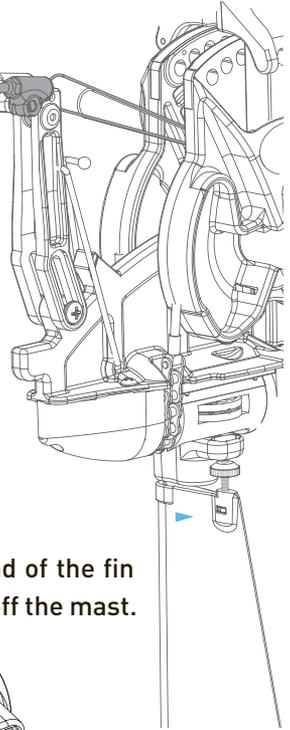
1x 1/8" Allen wrench _____

The following steps will guide you through the removal of your old fins, installation of your new Turbo Fins and how to tune your Turbo fins.

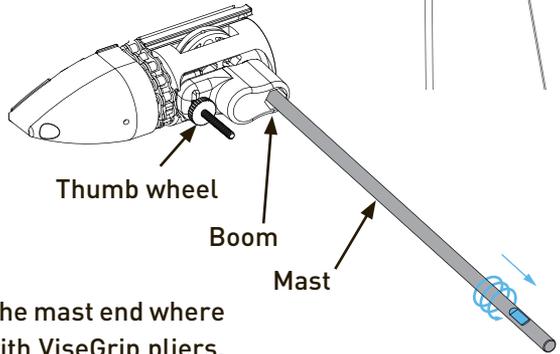
1. Mirage Fin and Mast Removal:

Fin removal is done by first rotating the MD180 to a 90° position. Pull the shifting tendons to turn the fins to the half way position.

Using the 1/8" Allen wrench on the boom and pliers on the nut, undo the bolt that holds the fin on.



This will free up the end of the fin so that you can slide it off the mast.



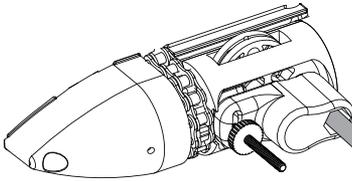
To remove the mast look at the mast end where there is a flat area to grip with ViseGrip pliers. Unthread the masts from the boom.

The masts are fairly snug in the sprockets and bonded with Loc-Tite, so a pair of ViceGrip pliers can make things much easier. Grip and twist (unthread) the mast and pull it free from the boom.

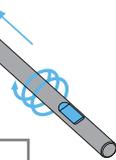
For very tight masts... Clamp each mast in a vise and turn the drive itself to break the Loc-Tite bond.

2. Turbo Mast Installation:

The 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 boom.

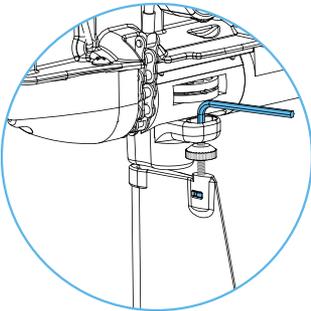


Using ViseGrips pliers, grip on the flat area near the end of the mast and thread the masts all the way into the boom.



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

3. Turbo Fin Installation:



Now that the masts are seated, slide the new turbo fins all the way onto the new masts.

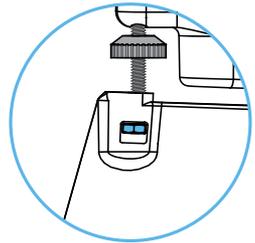
Insert the original hex nut into the slot in the fin. Use the Allen wrench and pliers to tighten the nut down to the fin.

Tuning Turbo Fins:

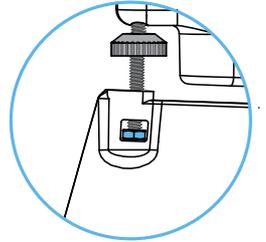
The Turbo fins are equipped with a thumb screw that allows you to change the tension of the fins and is located in the upper rear corner of each fin.

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 screw clockwise loosens the fins to the outhaul block.



Turning the thumb screw counterclockwise tightens the fins to the outhaul block.



DO NOT over tension the fin adjuster. The fin must be able to move from side to side in the traveler slot. Too tight and it will bind and not move in the traveler slot and possibly cause damage to the fin or the adjustment hardware.

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.

Enjoy your new MirageDrive 180 Turbo Fins!



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