VORTELATOR KITS

254 SERIES VORTELATOR KITS FOR HOMEBUILT AIRCRAFT

Can increase your homebuilt aircraft speed by 4 to 7.5 mph. This is accomplished by placing vortelators at certain critical locations which will cause the boundary layer to stay attached to flying surfaces for a greater distance, and to keep the boundary layer thinner. The net result of these two actions is that it reduces both the profile drag and skin friction drag components of the parasite drag. Contains a 100 foot roll of vortelator, more than enough for most homebuilts, plus clear instructions with pictures on how to determine where to, and how to, place the vortelators to increase your aircraft's speed. Though it's not a requirement for homebuilt aircraft these vortelators are FAA STC'd and manufactured under a FAA PMA because they are also approved for certified aircraft. That means you get the benefit of FAA certified aircraft parts. The booklet 120-1 "Fly to use less fuel" (PN 08-00732) includes an adhesive backed aluminum placiad to list the working airspeeds of your aircraft.

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<th>Kit Number</th>
<th>Description of Vortelator Kit</th>
<th>Part No.</th>
<th>Price</th>
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<td>254-AD</td>
<td>Delineates a procedure for determining where vortelators should be placed on an aircraft, for increased speed, by visualizing surface air flow through simple flight tests at straight and level flight at cruising speed. This kit is ideal for those aircraft models that do not have enough aircraft out in the field for Aircraft Development to economically warrant the time and expense of developing kits for.</td>
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<td>254-RV3</td>
<td>The vortelating of the airplane's RV aircraft will give about a 4 to 5 MPH increase in speed and a decrease in the stalling of about 2 MPH. The kit is complete. It comes with 200 feet of vortelators, more than enough for one airplane, and clear instructions on how to place the vortelators to increase the aircraft's speed.</td>
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<td>254-RV4</td>
<td>254 RV4 Kit 254-RV4 05-00853 $255.95</td>
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| 254-T18    | The vortelating of the airplane's T-18 aircraft will give about a 4 to 5 MPH increase in speed and the vortelating of propellers of these aircraft is more random in nature. From flight tests the increase in speed can be from 2 to 4 MPH depending on the propeller used.

246-100 CESSNA VORTELATOR KIT - can increase Cessna's speeds by up to 6 MPH. This is accomplished by placing vortelators at certain critical locations which cause the boundary layer to stay attached to flying surfaces for a greater distance, and to keep the boundary layer thinner. The basic procedure for installing the kit is to prepare the surface to which the vortelator is going to be applied by thoroughly cleaning the surface. Then simply peel the lining backing off the adhesive back vortelator and apply it to the cleaned surface. The vortelator is clear and therefore takes on the color of the surface to which it is applied. This vortelator kit is FAA STC'd and manufactured under a FAA PMA approval. The kit comes with 200 feet of vortelators, more than enough for one airplane, and clear instructions on how to install the kit. The kit can easily be installed in one day and will add about 5 ounces of weight to the aircraft and not change the handling qualities of the aircraft. Please visit our website for a list of FAA approved Cessna models. 

PROPELLER VORTELATOR KITS FOR ULTRALIGHT, HOME BUILT AND CERTIFIED AIRCRAFT

Capable of increasing your aircraft speed and RPMs. This is accomplished by placing vortelators at certain critical locations on the propeller’s most inefficient highest air drag areas. The vortelators will cause the boundary layer to stay attached to the propeller surface for a greater distance, and to keep the boundary layer thinner. Though it's not a requirement for ultralight or homebuilt aircraft these vortelators are FAA STC'd and manufactured under a FAA PMA because they are also approved for certified aircraft. Contains three foot strip of vortelator, more than enough to vortelator up to a three blade propeller. Plus clear instructions with pictures on where to place the vortelators on the propeller. The vortelator weighs less than .05 ounces and takes less than a half hour to install. The vortelators have a pressure sensitive adhesive backing so the installation process is simply to clean the area of the propeller where the vortelators will be placed and stick them on to the propeller. It can be used on virtually all propellers that are attached to engines of less than 500 HP be they metal, composite, or wood are approved for the installation of vortelator kits. This kit is not recommended for propellers that are equipped with anti-icing devices.

259-200 Propeller Vortelator Kit for Ultralight Aircraft - Capable of INCREASING Your ultralight aircraft speed by 2 to 5 mph and increasing your engine speed by up to 150 rpm. P/N 05-01465 ........................................ $33.75

259-200 Propeller Vortelator Kit for Homebuilt Aircraft - Capable of Increasing your homebuilt aircraft speed by 2 to 4 mph and your rpm by 20 to 50 rpm. That's if you have a fixed pitch propeller. If you have a constant speed propeller, for a given RPM and manifold pressure the propeller will be at a slightly larger pitch giving you more speed. P/N 05-01466 ........................................ $33.75

260-100 Propeller Vortelator Kit for Certified Aircraft - If increasing your aircraft speed by 2 to 4 mph and your rpm by 20 to 50 rpm. That's if you have a fixed pitch propeller. If you have a constant speed propeller, for a given RPM and manifold pressure the propeller will be at a slightly larger pitch giving you more speed. Please visit our website for a list of FAA approved propeller models. P/N 05-01467 ........................................ $104.95

VOXETOR GENERATOR STOL KIT

The vortex generators are precision injected molded and made from UV stabilized clear polycarbonate material. This material is extremely strong and lightweight. 100 vortex generators will weigh approximately 1 ounce. The bottom of the vortex generator has a slight curve to match the wings airfoil. They have a full sweeping sail which wind tunnel testing has shown to be superior to those with a flat top. The vortex generator has a base of 1.0” x 4.0”. There are many advantages to this kit: 1) increased lift, 2) slower stall speed by 4 to 6 MPH, 3) shorter landing distances, 4) shorter takeoff distances, 5) higher angle of climb, 6) tighter turns, 7) gentler stalls, 8) better aileron authority at slow speed, 9) aircraft is more controllable. The vortex generator is more efficient in all roll conditions, based on cruising speed, to determine the working speeds for your homebuilt aircraft. Knowing the speed to fly at to go the greatest distance or stay up the greatest amount of time can be critical under certain conditions. Flying your aircraft using the techniques described in this booklet will save on the cost of gasoline an item that will only continue to escalate in cost as time goes by. This booklet comes with an adhesive backed aluminum placiad to list the working airspeeds of your aircraft Fly To Use Less Fuel booklet................. P/N 08-00732 ............... $19.95

261-AD1 Deluxe generic vortex generator STOL kit for homebuilt aircraft 150 05-01773 $438.00

261-AD2 Generic Vortex Generator STOL Kit for Homebuilt Aircraft 65 05-01776 $217.75

261-RV1 Vortex Generator STOL Kit for the RV-3 Aircraft 65 05-01777 $282.95

261-RV1 Vortex Generator STOL Kit for the RV-4 Aircraft 65 05-01779 $282.95

261-RV1 Vortex Generator STOL Kit for the RV-6 Aircraft 65 05-01780 $282.95

261-RV1 Vortex Generator STOL Kit for the RV-8 Aircraft 65 05-01781 $282.95