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Avoiding aero modification BS! **Why many aero diffusers don't work** How Effective is a Flat Floor? (on cars) The Beginners Guide to Aero Modifications for your Car *Air curtains to reduce aerodynamic drag in cars* Making aerodynamic undertrays to reduce lift and drag *HPC in Action: Navistar Aerodynamic Drag The simplest, most effective aero modification you can make - just do it!* **How Does Weight Loss Effect Aerodynamic drag?**

Using a roof extension to reduce aerodynamic drag *Types of aerodynamic drag in a road vehicle* **Reducing Aerodynamic Drag And Fuel**

How Better Aerodynamics Lead to Fuel Savings

Recently, Wabash National Corp. unveiled three new solutions designed to significantly improve trailer aerodynamics and fuel economy: the Ventix DRS (drag reduction system) utilizes a patent-pending segmented design to manage air flow across the entire length of the trailer and eliminate drag points; an aerodynamic tail device, named the AeroFin, manages airflow across the rear of the trailer to reduce aerodynamic drag; and the lightweight AeroSkirt CX, a trailer side skirt that provides up ... The 21st Century Truck Program, an industry-government collaboration, has established an aerodynamic drag reduction goal of 20% for Class 8 tractor-trailer combinations. With assistance from DOE's Inventions and Innovation Program, SOLUS Solutions and Technologies LLC has developed several low-cost aerodynamic devices that reduce drag and improve fuel economy for tractor-trailer trucks.

Investing in aerodynamics to improve your fuel efficiency

Designed to fill the area between the tractor and the front of a dry trailer, helping to shield from crosswinds and reduce drag on the front of the trailer. Wheel covers and mudflaps. Help reduce turbu-

lence and drag around the wheels, which helps improve fuel efficiency. Often, different types of aerodynamic devices will complement each other.

Reducing Aerodynamic Drag And Fuel Consumption At sufficiently close spacing—less than one vehicle length in the case of a car, or one vehicle height in the case of a truck—the interaction is stronger. Pressure is higher in the “cavity” than would be experienced by a vehicle in isolation.

You can reduce your vehicle's aerodynamics by: Lifting it — “an inch of increased ride height degrades the coefficient of drag by about 10 drag counts [.01],” says Wegryn. Adding wider tires

2) Gap Seals. The gaps between flight control surfaces and a wing are perfect spots for drag creation. Airflow moves from areas of high pressure to low pressure through these small gaps, making airflow turbulent, and increasing drag. Some manufacturers install gap seals on their aircraft to counter this problem.

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If you reduce drag, you can maintain the same speed for less fuel or use the same amount of fuel but travel faster. And a more streamlined rig is safer and has more stability at all speeds above 55 km/h or 35 mph. Where to get the best payback when you streamline your RV There are three key areas for drag:

The overall aerodynamic drag force is reduced by eliminating wake region at the rear. side of the car and reducing pressure in the front region of the car by delaying the flow separation. This improves the overall aerodynamic performance of the car thereby reducing fuel consumption, as well as.

Understanding Aerodynamic Drag & How It Impacts Your Truck

The reduction of aerodynamic drag allows not only increasing profit margin of vehicle operation but also reduces energy consumption and greenhouse gas emissions. In order to minimise aerodynamic drag and thereby fuel consumption, streamlining the body shape and minimising flow separations are paramount.

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Reducing Aerodynamic Drag And Fuel Consumption

Aerodynamic drag is the force that opposes the direction of motion of the vehicle. In order to incorporate inverted wings onto race cars without the sacrifice of too much induced drag, engineers devised methods of decreasing drag, thereby decreasing the engine power needed to maintain the vehicle at a certain speed. By reducing the drag on a car, the corresponding fuel economy would increase.

Drag Reduction: The Pursuit of Better Fuel Economy - USC

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 A reduction of 26% in vehicle aerodynamic drag factor can be obtained by installing a full-size rear fairing. A rear fairing having half the length of its vehicle model can reduce the drag factor by up to 22.6% and quarter the length will provide a 16.1% reduction. of air.

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When an 18-wheeler travels on the highway, more than 50% of its fuel use goes toward reducing aerodynamic “drag.” Cutting the drag on trucks will also cut down fuel consumption. Lawrence Livermore National Laboratory in California is studying ways to improve the fuel economy of tractor-trailers.

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How to: Streamline your RV and Save Fuel

Aerodynamic drag is mainly ensuring such things as proper door gaps, etc. Other possibilities are wheel pants or STC mods that can smooth out your aerodynamic posture. And, of course, speed is the biggest consideration. I know we fly to get someplace quickly. But running at 65% power will reduce fuel burn significantly over 70%.

Tips to improve fuel efficiency in your airplane — General

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profit margin of vehicle operation but also reduces energy consumption and greenhouse gas emissions. In order to minimise aerodynamic drag and thereby fuel consumption, streamlining the body shape and minimising flow separations are paramount.

[PDF] Implication of Vehicle Aerodynamics on Fuel Savings

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For passenger cars this means that aerodynamics is responsible for a much higher proportion of the fuel used in the highway cycle than the city cycle: 50% for highway; versus 20% for city. This means that if you make a 10% reduction in aerodynamic drag your highway fuel economy will improve by approximately 5%, and your city fuel economy by approximately 2%.

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Advanced Aerodynamic Technologies for Improving Fuel ...

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