

# Tech Sheet: World Aircraft Sentinel, Spirit, Vision

(world-aircraft-WAC.pdf)



World Aircraft Extended Canopy Cover & Engine Cover

## Section 1: Canopy/Cockpit/Fuselage Covers

The **World Aircraft Sentinel, Spirit, Vision Over-The-Top Style Canopy Cover** encloses the windshield, side and rear windows, and extends over the top of the airplane to cover the section between the wings. This is a one-piece design, which wraps around the canopy and closes with a Velcro closure behind the pilot's side door, and at the same place on the copilot's side of the cabin. By opening the Velcro closure on the door side, one can enter the airplane without removing the entire cover. The cover will extend over the top of the cabin area to cover the wing root fairings to help protect against leaks. The cover fastens with two belly straps that are adjustable and detachable from either side with heavy-duty quick-release plastic buckles. To keep the sides of the cover snug, special tightening straps are sewn onto the upper hem on each side. To ensure the most secure fit, high-quality shock cord is enclosed in the hem of the cover to help keep the cover tighter against the airplane. Canopy Covers are commonly referred to as Cabin Covers, Fuselage Covers, Canvas Covers, etc.

Each Canopy Cover is custom sewn and the corners are trimmed to match the colors of the airplane. The airplane's registration number can be imprinted onto both sides of the cover for an additional charge. A duffle bag is included with all Canopy Covers.

This cover type is made from Silver Acrylic Sunbrella canvas and is 100% lined with a soft and smooth microfiber. Bruce's Custom Covers developed this material combination especially for aircraft protection. The outer material is medium weight and treated for water resistance, UV resistance and anti-static buildup. The inner lining is a very soft and smooth microfiber to prevent scratching. The material is very reflective, and tests show that the cabin interior temperature can be reduced to near-ambient temperature on the hottest of days. It is water, ice and snow repellent, yet breathable to allow moisture to escape from between the cover and the

aircraft surface.

The **Extended Canopy Cover, Over-The-Top Style** wraps around the airplane to cover all of the windows, extends over the top of the airplane to cover the section between the wings, and extends down to the main wheel struts to cover the entire side of the airplane. The cover will extend over the top of the cabin area to cover the wing root fairings to help protect against leaks. The cover fastens with two belly straps that are adjustable and detachable from either side with heavy-duty quick-release plastic buckles. To keep the sides of the cover snug against your World Aircraft Sentinel, Spirit, Vision, special tightening straps are sewn onto the upper hem on each side. To ensure the most secure fit, high quality shock cord is enclosed in the hem of the cover to help keep the cover tighter against the airplane. Canopy Covers are commonly referred to as Cabin Covers, Fuselage Covers, Canvas Covers, etc.

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World Aircraft Extended Canopy Cover & Engine Cover



Glastar Spandex FlyAway Travel Canopy Cover

Description	Part Number	Price
CANOPY COVER, over top type	<b>WAC-000</b>	<b>\$520.00</b>
EXTENDED CANOPY COVER, over-top type	<b>WAC-010</b>	<b>\$640.00</b>

## Section 2: Engine/Prop Covers

**Engine Covers** will cinch around or behind the spinner, cover the entire engine cowl area including the engine air cooling and induction air inlets, and fastens together with Velcro beneath the spinner down the front of the cowling. The Engine Cover is attached with a belly strap aft of the firewall, and can Velcro to the Canopy Cover. Engine Covers are normally made from Solution-Dyed Polyester or Acrylic *Sunbrella*. An Insulated version of the engine cover can be made with a thicker, quilted, and water-repellent material. The Insulated Engine Cover works well in cold climates to help with engine preheating.

FOR INTERIOR USE - Protect your airplane's engine inside a cold winter hangar with our reasonably priced **Insulated Hangar Blanket**. While not as form fitting as our custom fit insulated engine covers, the **Hangar Blanket** will work wonders to help protect your engine when used with a heating device. AVAILABLE IN RED OR BLACK.

Insulated Covers Material - A special composite material of solution-dyed polyester, 3M Thinsulate insulation, and soft nylon interior fabric. Our insulated covers are designed to complement an engine preheater and help retain heat in the engine compartment after shutdown. If you operate your aircraft in cold-weather, these covers will help prevent engine wear and tear.

Sorry, custom flaps and preheater access is not available on the hangar blanket. The **World Aircraft Sentinel, Spirit, Vision Insulated Engine Cover** works well in cold climates to help with engine preheating. You can add an access flap for an additional



fee. It will cinch around or behind the spinner, cover the entire engine cowl area including the engine air inlets, and fastens together with Velcro beneath the spinner down the front of the cowling.

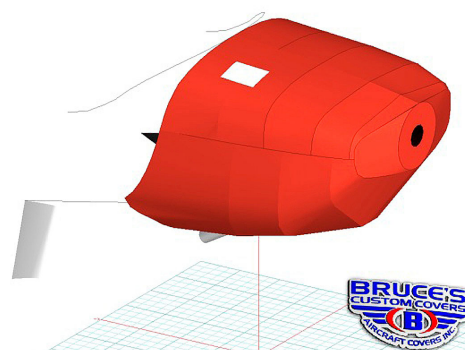
**Insulated Covers Material** - A special composite material of solution-dyed polyester, 3M Thinsulate insulation, and soft nylon interior fabric. Our insulated covers are designed to complement an engine preheater and help retain heat in the engine compartment after shutdown. If you operate your aircraft in cold-weather, these covers will help prevent engine wear and tear.

The **World Aircraft Sentinel, Spirit, Vision Propeller Cover** is a one-piece design that form fits to the blades and spinner. The prop cover slips over the blades and spinner and is attached by a plastic all-weather zipper on the bottom of the blades. Propeller covers can be made for multiple numbers of blades, and for wooden, composite or metal props. The Propeller Cover is normally made from Acrylic *Sunbrella* or Solution-Dyed Polyester and is lined 100% with a soft and smooth microfiber. **Insulated Propeller Covers** works well in cold climates to help with engine preheating. These insulated versions are made with a thicker, quilted, water-repellent, and breathable material.

This cover type is made from Silver Acrylic Sunbrella canvas and is 100% lined with a soft and smooth microfiber. Bruce's Custom Covers developed this material combination especially for aircraft protection. The outer material is medium weight and treated for water resistance, UV resistance and anti-static buildup. The inner lining is a very soft and smooth microfiber to prevent scratching. The material is very reflective, and tests show that the cabin interior temperature can be reduced to near-ambient temperature on the hottest of days. It is water, ice and snow repellent, yet breathable to allow moisture to escape from between the cover and the aircraft surface.



World Aircraft Extended Canopy Cover & Engine Cover



Glastar Insulated Engine Cover, 3D model

Description	Part Number	Price
ENGINE COVER	<b>WAC-110</b>	<b>\$400.00</b>
INSULATED ENGINE COVER	<b>WAC-115</b>	<b>\$520.00</b>
PROPELLOR/SPINNER COVER, 3 blade	<b>WAC-150</b>	<b>\$255.00</b>
INSULATED PROPELLOR/SPINNER COVER, 3 Blade	<b>WAC-155</b>	<b>\$290.00</b>
INSULATED HANGAR BLANKET, INTERIOR USE	<b>WAC-HB1</b>	<b>\$300.00</b>

### Section 3: Plugs & Protection

**Engine Inlet Plugs** are custom fit for your World Aircraft Sentinel, Spirit, Vision intakes, made with heavy-duty vinyl material, and stuffed with a single block of sculpted urethane foam. Each plug has a zipper that allows the foam to be removed and dried if necessary. Engine plugs have warning flags that are visible from the cockpit or 'remove before flight' streamers sewn onto the face of the plugs. Most plugs are imprinted with the aircraft registration number in black for an extra charge. Storage bag NOT included. Engine plugs may be inserted after flight when the engine is still warm. **Engine Inlet Plugs are commonly referred to as Cowl Plugs, Intake Plugs, Cowl Blocks, Engine Blocks, and Engine Bungs.**



Glstar Engine Plugs



ENGINE PLUGS PREVENT BIRD NEST FOD. Piper Saratoga Engine Cowling Bird's Nest

Description	Part Number	Price
ENGINE INLET PLUGS (set of 2)	<b>WAC-100</b>	<b>\$190.00</b>

Section 4: Wing/Tail/Empennage Covers

**Horizontal Stabilizer Covers** are a perfect solution to protect your paint from sun damage and prevent frost, snow, ice buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic *Sunbrella*. They cover the entire upper surface of the stabilizers and overlap around the leading and trailing edges as well as the wing tip. The covers secure under each stabilizer with adjustable straps. In some instances, cut-outs are made in the trailing edge of the wing covers to accommodate for static wicks. **Horizontal Stabilizer Covers** for winter use or long-term all year use are usually available, and are normally made from Solution-Dyed Polyester or Acrylic *Sunbrella*. A Hail Protection version can be made which incorporates dense closed cell foam into the entire upper surface of the wing covers to help prevent hail damage. Although these covers are bulky, they do help protect your wing and control surfaces against small to medium-size hail.

ALL-YEAR USE MATERIAL - Made with Silver Acrylic Sunbrella canvas, the all-year use material is the best option for sun protection and cover longevity. This heavier more durable material is intended for all weather conditions, such as rain and snow or lots of sun.

WINTER USE MATERIAL - Made with Solution-Dyed Polyester fabric, this option is intended for seasonal use to aid in deicing, rain mitigation, or for occasional travel. The material is lighter and more compact, but more susceptible to UV damage and may have a shorter useful life if used continuously outside than the all-year use material.

The **World Aircraft Sentinel, Spirit, Vision Wing Covers** are a perfect solution to protect your paint from sun damage and prevent winter frost, snow, ice buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic *Sunbrella* and form-fit to slip around each wing tip, cover the entire upper surface of the wing and wrap around the leading and trailing edges. The covers secure under the wing with adjustable straps from the trailing edge to the leading edge. The wing covers can also attach to each other with adjustable straps at the leading and trailing edges of the wing under the belly of the plane. In some instances, cut-outs are made in the trailing edge of the wing covers to accommodate static wicks. We have the ability to also accommodate wing tip modifications, such as STOL kits, droop tips, and vortex generators. Wing covers are labeled LEFT and RIGHT for your convenience. Wing Covers are available for winter use or long-term, all-year use. A Hail Protection version can be made which incorporates very dense closed cell foam into the entire upper surface of the wing covers to help prevent hail damage. Although these covers are bulky, they do help protect your wing and control surfaces against small to medium-size hail.

ALL-YEAR USE MATERIAL - Made with Silver Acrylic Sunbrella canvas, the all-year use material is the best option for sun protection and cover longevity. This heavier more durable material is intended for all weather conditions, such as rain and snow or lots of sun.

WINTER USE MATERIAL - Made with Solution-Dyed Polyester fabric, this option is intended for seasonal use to aid in deicing, rain mitigation, or for occasional travel. The material is lighter and more compact, but more susceptible to UV damage and may have a shorter useful life if used continuously outside than the all-year use material.



Glstar Canopy, Wings, Horizontal Stab. & Prop Covers

Description	Part Number	Price
WING COVERS, WINTER USE (set of 2)	<b>WAC-120</b>	<b>\$480.00</b>
WING COVERS, ALL YEAR USE (set of 2)	<b>WAC-125</b>	<b>\$725.00</b>
HORIZONTAL STABILIZER COVER, WINTER USE	<b>WAC-300</b>	<b>\$155.00</b>
HORIZONTAL STABILIZER COVER, ALL YEAR USE	<b>WAC-305</b>	<b>\$240.00</b>

#### Section 7: Light Weight Products: Travel Covers and FlyAway Covers

The **Lightweight Travel Canopy Cover** will cover the same area as our standard Canopy Cover, but the material used is very lightweight and will fold up and store in a much smaller space. This cover is ideal for the airplane that is stored in a hangar full-time and only needs a cover on rare occasions.

Travel Covers are made with Silver Solution-Dyed Polyester fabric and only lined over the windshield to save weight. The material is lightweight and more compact for easy stowage in the aircraft. The polyester material is water resistant, but only intended for occasional use outside. We also have an ultra lightweight material available for fitted hangar dust covers. For daily outdoor use, the non-travel Sunbrella Cover is the best choice.

Description	Part Number	Price
TRAVEL COVER, Light Weight Canopy Cover	<b>WAC-090</b>	<b>\$415.00</b>

**Prices subject to change. Other Covers and Design Alterations: Prices on request.**

**Prices are FOB Morgan Hill, CA. Sales tax on orders shipped to California addresses. Orders take approximately 3 weeks to complete. For domestic orders we normally ship by UPS ground service. Next day shipping and air parcel post is available on request. We can take payment by Visa, Mastercard, American Express, or Discover.**

**Bruce's Custom Covers offers protective covers and plugs for virtually every type of airplane, jet and helicopter. If you have questions about our products please call any time TOLL FREE: 800/777-6405, or FAX: 408/738-2729.**





A division of Aircraft Covers, Inc.

18850 Adams Ct.  
Morgan Hill, CA 95037  
www.AircraftCovers.com

## Aircraft Cover Ordering Form

Customer Info	Name _____
	Shipping Address _____ _____
	Phone & Email _____
Payment	Credit Card Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	Exp. Date <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> V-Code* <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	<small>*Visa, Mastercard, Discover: last 3 numbers on back of card, right of signature. Amex: 4 smaller numbers printed on face of card.</small>
A/C Info	Reg / Tail Number: _____ Aircraft Type: _____ Year: _____
	Colors / Paint Scheme (be specific): _____

**Please specify below the items you would like to order.**  
See technical sheet or visit our website for part numbers (or just fill in the description)

	Part Number	Quant	Description	Price
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

**Optional Items (check the box of the item you want)**

Imprint aircraft registration number onto both sides of canopy cover.....\$35.00

Imprint aircraft registration number onto jet intake covers.....\$55.00

TOTAL