


**BRUCE'S CUSTOM COVERS**

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*a div. of Canvas Works, Inc.*

*manufacturer of the finest custom-made aircraft covers*

## **Tech Sheet: Swearingen Fairchild Metro Merlin M4A (UC-26C)**



**Merlin Canopy Cover (illustration)**

**Canopy covers help reduce damage to your airplane's upholstery and avionics caused by excessive heat, and they can eliminate problems caused by leaky door and window seals. They keep the windshield and window surfaces clean and help prevent vandalism and theft.**

**The Merlin Canopy Cover** encloses the windshield, side windows and canopy roof. It is custom sewn to fit each airplane according to antennae and temperature probe placements. Where necessary a pocket is sewn into the cover for the temperature probe and reinforced holes or pockets are added for VHF antennae. They can be made to fit around ADF or VOR antennae by placing a Velcro closure down the side of the canopy cover from the antenna base.

**The Windshield Cover** encloses the windshield and cockpit side windows. It is easier and faster to install than the complete canopy cover. It attaches with a belly strap at the front corners. At the rear corners there are straps which attach to the wing trailing edge with padded hooks.

**The Windshield/Nose Cover** is similar to the Windshield Cover except that it also covers the nose. It also covers the pitot tubes with special-fit pockets, and has a pocket for the temperature probe where necessary.

**The Extended Canopy Cover** is similar to the standard Canopy Cover, except that it extends down to the wing root and overlaps with the the Wing Covers. It features a shock-cord hem and fore and aft belly straps which are detachable and adjustable from either side. The Extended Canopy Cover can be made to overlap and attach with Velcro to the Nose Cover and Empennage Cover. The Extended Canopy Cover is made of Silver Laminate, and comes with a storage bag.

**Each canopy cover is custom sewn and trimmed in the colors of the airplane.** A duffle bag is also provided. For an extra charge the airplane's registration number can be imprinted onto both sides of the cover.

**Each canopy cover is made of nylon Silver Laminate.** Bruce's Custom Covers developed Silver Laminate especially for aircraft protection. The outer material is a medium weight nylon treated for ultraviolet resistance and anti-static buildup. The inner lining is brushed nylon tricot knit. Silver Laminate is extremely reflective. Tests show that the cabin interior temperature can be reduced by as much as 25 degrees (25° F.). It is water, ice and snow repellent, yet it is breathable enough to allow moisture to escape from between the cover and the windshield surface. Silver Laminate contains no hydrocarbon compounds which can harm plexiglass windshields and acrylic finishes.

**Engine Inlet Plugs** are "pillows" sewn of heavy duty vinyl material and stuffed with a single block of urethane foam. A zipper in the back of each plug allows the foam to be removed and dried if necessary. Engine plugs have warning flags which stick up above the cowl line, visible from the cockpit. Most plugs are embroidered with the aircraft registration number, done in black, about 1" high.

**Prop Tie-Down/Exhaust Covers** are made of heavy duty red vinyl material. Thick nylon webbing runs from the exhaust covers to the prop boot. This webbing is adjustable with plastic buckles, and is held tight with a steel spring where it attaches to the prop boot.

**Engine Covers** are made of Silver Laminate like the Canopy Cover. They enclose the entire engine cowling area and Velcro's closed beneath the prop spinner. They are attached with a belly strap near the leading edge, and usually extend over the wing back to the trailing edge.

**Propellor Covers** are a one-piece form fit design which slip over the blades and spinner. The cover zips together along the bottom edge of the blade covers. Made in two-blade and three-blade styles, Propellor Covers are made of Silver Laminate.

**Wing Covers and Horizontal Stabilizer Covers** are form-fit to slip over the wing tip and secure with straps under the wing. Wing Covers are made of medium weight nylon, and come with a storage bag.

**The Empennage Cover** is a one-piece cover made to cover the vertical and horizontal stabilizers, as well as the tail area aft of the Canopy Cover. The cover attaches with Velcro to the aft edge of the Canopy Cover, and with straps underneath the belly. The cover is pulled back over the vertical stabilizer and a zipper is closed at the trailing edge of the rudder. The cover is then stretched over the elevators and zippered closed along the bottom elevator surfaces. There are also some straps under the elevators. The Empennage Cover is made of medium weight nylon.

**HeatShields** are interior reflectors which are intended as temporary relief against heat buildup in the cockpit or cabin interior. They do keep the interior about as cool as exterior covers, but they can take longer to install and do nothing to protect the plexiglas or to prevent damage caused by leaks. Also, in aircraft equipped with laminated windshields, they may cause damage to those windshields because of excessive heat buildup near the glass.

Our HeatShield material is a special laminate of metallized polyester film, laminated to a thin sheet of closed-cell foam. It is thinner than bubble-pack type reflectors, and has extremely good reflective and insulating qualities.

Where an exterior cover is not considered practical by the operator, a HeatShield is often the best solution for cabin protection.

**CURRENT PRODUCTS LIST as of: January 24, 2009**  
**Swearingen Fairchild Metro Merlin M4A (UC-26C)**

<u>DESCRIPTION</u>	<u>SET OF...</u>	<u>PART NO.</u>	<u>PRICE</u>
WINDSHIELD COVER	1	M4A-000	420.00
WINDSHIELD/NOSE COVER	1	M4A-010	565.00
COCKPIT HEATSHIELD	5	M4A-910	180.00
HEATSHIELD SET	11	M4A-915	295.00
PITOT COVERS	2	M4A-HP1	30.00

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

*Prices are FOB Sunnyvale, CA. Sales tax on orders shipped to California addresses. Orders take approximately 3 weeks to complete. Normally we ship by UPS second day service. Next day shipping and air parcel post is available on request. We can take payment by Visa, Mastercard, American Express or by UPS-COD.*

*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.*



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**INSTRUCTIONS: Print Form, Fill Out, Fax to 408/738-2729**

# AIRCRAFT COVER ORDERING INFORMATION

NAME \_\_\_\_\_

SHIPPING ADDRESS \_\_\_\_\_

PHONE, FAX, E-MAIL \_\_\_\_\_

**PAYMENT BY:** Visa  MasterCard  Amex  Discover  (check one)

All shipments are F.O.B. Sunnyvale, California, shipping by UPS (Ground or 2nd Day Service) unless requested otherwise.

Credit Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_ V-Code \_\_\_\_\_

\* Visa, Mastercard, Discover: last 3 numbers on back of card, right of signature. Amex: 4 smaller numbers printed on face of card.

AIRCRAFT TYPE \_\_\_\_\_ YEAR \_\_\_\_\_ N \_\_\_\_\_

reg. number

AIRCRAFT COLORS (be specific) \_\_\_\_\_

***Please specify below the items you would like to order.  
See Technical Sheet for part numbers (or just fill in the description)***

	part number	quant	description	price
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

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

*Imprint* aircraft registration number onto both sides of canopy cover. . . . . \$30.00

*Silkscreen* aircraft registration number onto both intake covers of jet engine cover set. . . 50.00

rev. date: 2/15/07



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# Measuring for a Propellor Cover

**INSTRUCTIONS: Print Form, Fill Out, Fax to 408/738-2729**

Spinner and blade dimensions on propellers vary, even among similar models. Producing a well-made propellor cover depends upon the following measurements.

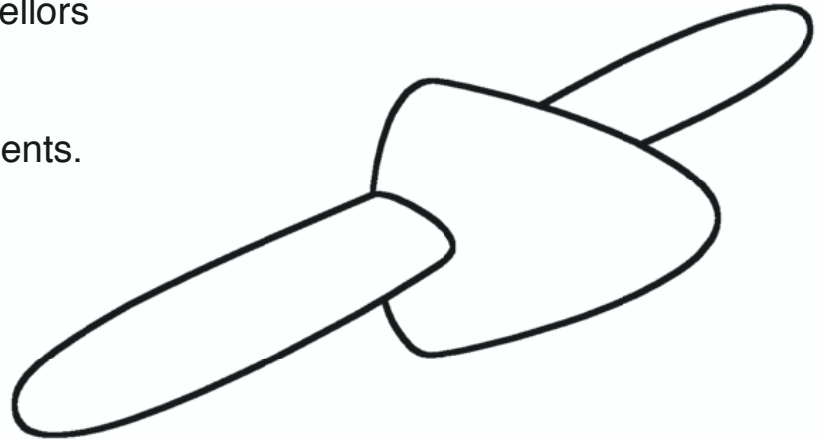
If you have any questions or problems, please call.

**Please Check One:**

**2-Blade**

**3-Blade**

**4-Blade**



- A \_\_\_\_\_ (measure along surface of cone)
- B \_\_\_\_\_ (measure "straight line" base to tip)
- C \_\_\_\_\_ (base to top of blade root opening)
- D \_\_\_\_\_ (provide diameter or circumference)
- E \_\_\_\_\_ (provide diameter or circumference)
- F \_\_\_\_\_ (blade root to prop tip)
- G \_\_\_\_\_ (trailing edge to leading edge)
- H \_\_\_\_\_ (trailing edge to leading edge)
- J \_\_\_\_\_ (trailing edge to leading edge)

