



## BRUCE'S CUSTOM COVERS

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*a div. of Canvas Works, Inc.*

*manufacturer of the finest custom-made aircraft covers*

### [Tech Sheet: Bell 214 B1](#)



#### [Forward Cabin Nose & Mid-Cabin/Engine Cover \(extended to cross tubes\)](#)

**The Silver Laminate Windshield/Canopy Cover** encloses the windshield, side windows and skylights. It covers the front side doors, and the canopy roof above the front seats. The cover attaches with buckles and straps to the front crosstubes, and with a belly strap under the nose beneath the windshield base. Attachment buckles are made of non-metal Delrin, designed for rugged outdoor use. A pocket is sewn into the cover for the temperature probe, and it is reinforced in the area of the windshield wipers. For ease of installation, the cover is color-coded (red=left, green=right) with color swatches sewn into the rear corners.

**The Silver Laminate Windshield/Canopy/Nose Cover** is similar to the windshield/canopy cover, but also encloses the nose of the helicopter. Pockets are sewn into the cover to allow for the pitot tubes. The cover attaches in the same way as the windshield/canopy cover, and is also running light color-coded.

**Windshield covers are 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. 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.

**The Engine Area/Mid-Cabin Cover** forms a "saddle" over the engine area to enclose the intakes, exhaust, engine and oil cooling screens. It fastens on either side to the front and rear cross-tubes, and to the rear beneath the tail rotor boom "bottleneck". To allow for the rotor mast, a Velcro closure splits the cover along the fuselage centerline forward of the mast. To aid in swash plate protection, a collar fits tightly around the rotor mast base. The cover is running light color-coded, and is made of durable heavy weight nylon. This material is extremely abrasion resistant, water repellent and lightweight.

**Rotor Hub/Stabilizer Bar Covers** overlap with each other, blade covers and the engine cover to insure complete protection for the entire main rotor. They are made of Cordura nylon and are available in a variety of colors. Cuffs close tightly around the blade roots and rotor hub base. The rotor hub cover closes with Delrin buckles. The stabilizer bar covers pull onto the bars and tie securely.

**Blade Covers** are sewn of medium weight nylon pack cloth. Cut "full" to avoid trim tabs, blade covers can be installed from the ground with the aid of lightweight rope which is attached to the open end. Covers are cinched tight at the blade root with straps and Delrin buckles. A small opening at the tip of the cover allows for some air circulation and drainage. For operations in extremely cold weather, blade covers can be fitted with full length zippers, and with "boots" designed to accept a pre-heater hose.

**Blade Tie-Downs** are made for both the front and rear blade positions. The Tie-Downs are "socks" which fit over the blade tip with or without blade covers installed. The front blade tie-down has long ropes which attach to the front cross-tubes or front skid tie-down rings. The rear blade tie-down has two straps with weighted ends.

**The Tail Rotor Cover** is a two-piece design which fits over each blade, similar to the details on the blade covers. Made of medium weight nylon in various colors, tabs have been sewn into the tips of the covers so that they may be tied down in high winds or to allow the covers to be pulled off quickly with rope.

**The Tail Rotor Hub/Gearbox Cover** is a one-piece design which overlaps with the tail rotor blade covers. The cover is made of heavy weight nylon in various colors, and fastens securely with Delrin buckles.

**The Tail Rotor Tie-Down** is a strap assembly or harness of heavy duty nylon webbing. which fastens around the tail rotor hub and lower blade. A weighted strap wraps around the tail skid to secure the rotor.

**Main/Alternate Air Plugs and Pitot Covers** are made of durable red Naugahyde reinforced fabric. They are designed to protect some of the helicopter's most vital components quickly, easily and thoroughly.

**HeatShield Interior Reflectors** are made of a special laminate of metallized polyester film and closed cell foam. Less than 1/8" thick, the reflector is stiff enough when flat to stand up against the windshield using the sunvisors and window framing only. On some designs Velcro fasteners are necessary. HeatShields roll up and store in a sleeve, yet retain a memory to be flat whenever they are needed. HeatShields are an excellent short-term remedy for cockpit overheating, but the Canopy Cover offers a more effective and practical solution.

## **CURRENT PRODUCTS LIST as of: August 12, 2008** **Bell 214 B1**

<b><u>DESCRIPTION</u></b>	<b><u>SET OF...</u></b>	<b><u>PART NO.</u></b>	<b><u>PRICE</u></b>
WINDSHIELD/CANOPY/NOSE COVER	1	214-000	845.00
WINDSHIELD/CANOPY/NOSE COVER (w/Logger window)	1	214-001	1,045.00
ENGINE INLET PLUGS	2	214-100	165.00

SWASH PLATE PLUG	1	214-105	360.00
EXHAUST COVER	1	214-150	145.00
BLADE TIE-DOWNS	2	214-200	315.00
ROTOR HUB COVER	1	214-300	360.00
TAIL ROTOR TIE-DOWN	2	214-400	295.00
BLADE COVERS	2	214-405	245.00
BLADE COVERS (cold weather type)	2	214-410	840.00
TAIL ROTOR COVERS	2	214-600	175.00
TAIL ROTOR HUB/GEARBOX COVERS	2	214-650	220.00
CABIN ROOF MAINTENANCE COVER	1	214-700	685.00

**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