BRUCE'S CUSTOM COVERS
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manufacturer of the finest custom-made aircraft covers

Tech Sheet: McDonnell Douglas 500D

(mcdonnell-douglas-500D.pdf)



Hughes 500C (369HS) Bubble Cover, Blade Tie-Downs

Section 1: Cockpit/Bubble Covers

The **McDonnell Douglas 500D Bubble Cover** helps reduce damage to the upholstery and avionics caused by excessive heat and can eliminate problems caused by leaking door and window seals. They keep the windshield and window surfaces clean and help prevent vandalism and theft.

The **Bubble Cover** encloses the entire canopy including the windshield, skylights, and chin bubble Attachment buckles are made of nonmetal *Delrin*, designed for rugged outdoor use. Both the top and bottom hems of the cover have a special rope-hem feature with which they can be tightened to help prevent abrasive chafing of the windshield. Pockets are sewn into the cover for the temperature probe and pitot tubes. The bubble cover is reinforced with patches at hinge points, door handles, and for the windshield wipers. For ease of installation, the bubble cover is color-coded (red=left, green=right) with color swatches sewn into the corners.

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.



McDonnell Douglas 500C Bubble Cover with Intake Cover Add-On



Hughes 500C Bubble Cover with Intake Add-on, Blade Tie-downs

Description	Part Number	Price
BUBBLE COVER (UPPER OAT PLACEMENT)	**500D-000**	**$1065.00**
BUBBLE COVER WITH INTAKE COVER ADD-ON	**500D-005**	**$1080.00**
BUBBLE COVER WITH INTAKE COVER ADD-ON W/ LOGGER WINDOW	**500D-007**	**$1260.00**
BUBBLE COVER w/ WIRE STRIKE & LOGGER WINDOW	**500D-008**	**$1260.00**
BUBBLE COVER WITH INTAKE COVER ADD-ON, LOGGER WINDOW & WIRE STRIKE	**500D-009**	**$1310.00**
BUBBLE COVER WITH WIRE STRIKE DETAIL	**500D-010**	**$1080.00**
BUBBLE COVER w/ LOGGER WINDOW	**500D-020**	**$1260.00**
BUBBLE COVER, Yehnert Conversion, "pointy" nose	**500D-021**	**$1080.00**
BUBBLE COVER w/intake cover add-on, Yehnert Conversion, "pointy" nose	**500D-022**	**$1100.00**
BUBBLE COVER w/intake cover add-on and logger windows, Yehnert Conversion, "pointy" nose	**500D-023**	**$1285.00**
COMPLETE FUSELAGE COVER (bottle neck forward)	**500D-025**	**$7470.00**
AFT FUSELAGE COVER	**500D-026**	**$3330.00**

Section 2: Engine/Tail Rotor Covers

Blade Tie-Downs are "socks" which fit over the blade tip with or without Blade Covers installed. Front blade tie-downs have two lengths of rope or strap which attaches to the front cross tubes on either side of the cabin. The other tie-downs have generous lengths of rope or strap to tie the blades down at any convenient spot.

Engine Cover details vary by model, but generally these covers are designed to enclose and protect the swash plate, inlet, exhaust and engine access areas. They are designed to tighten up around the main rotor drive shaft and tailboom bottleneck areas, and attach securely with straps either under the belly or to the land gear cross tubes (or both). *Delrin* buckles are used to tighten the attachment straps. The engine cover is made of Solution-Dyed Polyester or acrylic *Sunbrella*, and is available in a variety of colors ([contact us for details](/contact). Specific information for each model is available on request.

Rotor Hub Covers overlaps with the Blade Covers to ensure complete protection for the entire main rotor system. Designed like a jacket with sleeves and no collar, the rotor hub cover fastens together below each blade with *Delrin* buckles. The Rotor Hub Cover is normally made from Solution-Dyed Polyester.

Bruce's **McDonnell Douglas 500D Blade Covers** are made of medium-weight Solution-Dyed Polyester and designed to avoid trim tabs or wicks. You can install Blade Covers from the ground with the aid of a lightweight rope attached to the open end. Covers are

cinched tight at the blade root with straps and quick-release plastic buckles. The **Cold Weather Blade Covers** are fitted with full-length zippers and optional deice “boots” designed to accept a preheater hose; a small opening at the tip of the cover allows for some air circulation and drainage in freezing weather. Some part numbers have features for an extra charge.

The **McDonnell Douglas 500D 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 **McDonnell Douglas 500D Intake Cover.** Details vary by model, but generally helicopter intake covers are designed to enclose the intake are only. They are smaller than helicopter engine covers, and their attachment details can vary from straps, to snaps, or some combination of the two. Specific information for each model is available on request.

The **McDonnell Douglas 500D Tail Rotor Cover** is a one-piece design which encloses both the blades and their hub, snapping closed along the bottom edge. The tail rotor cover is normally made from Solution-Dyed Polyester.

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.



Customized Engine Cover



Hughes 500D Blade Tie-Downs, Doghouse Cover

Description	Part Number	Price
INTAKE/DOGHOUSE COVER	**500D-100**	**$575.00**
ENGINE COVER	**500D-101**	**$755.00**
INSULATED ENGINE COVER	**500D-102**	**$1245.00**
INTAKE COVER	**500D-111**	**$450.00**
EXHAUST COVER	**500D-200**	**$140.00**
ROTOR HUB COVER	**500D-300**	**$375.00**
ROTOR HUB COVER WITH SKIRT	**500D-305**	**$480.00**
INSULATED ROTOR HUB COVER WITH SKIRT	**500D-306**	**$600.00**
BLADE COVERS (set of 5)	**500D-400**	**$765.00**

BLADE COVERS w/tie downs (set of 5)	**500D-405**	**$1080.00**
BLADE COVERS (COLD WEATHER TYPE) (set of 5)	**500D-410**	**$1080.00**
BLADE TIE-DOWNS (fabric type) (set of 5)	**500D-500**	**$395.00**
TAIL ROTOR COVER	**500D-600**	**$240.00**
INSULATED TAIL ROTOR COVER	**500D-605**	**$300.00**

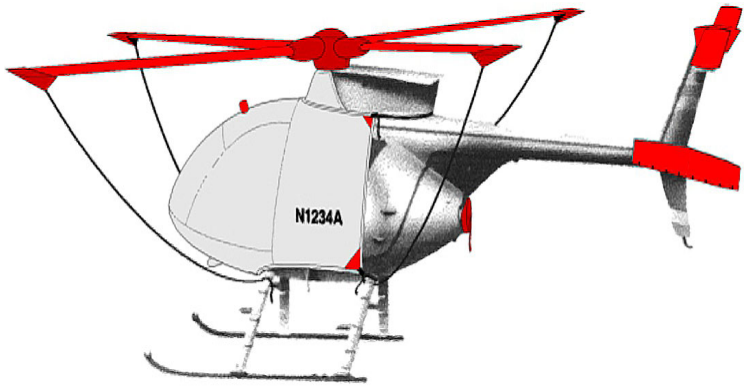
Section 3: Plugs & Protection

McDonnell Douglas 500D Pitot Tube Covers, NOT HEAT RESISTANT TYPE, are made of Naugahyde vinyl, and are designed to cover the entire pitot assembly. Slipping over the tube, the cover tightens around the base with a Velcro strap detail. A "Remove Before Flight" streamer is attached to the cover. **Heat Resistant Pitot Covers** are an upgrade to this design, and help prevent the pitot cover from melting onto the tube if the pitot heat is accidentally turned on while installed. If you want the set tethered together, please let us know.

Description	Part Number	Price
PITOT COVER	**500D-610**	**$120.00**

Section 4: Tailboom Covers

The **Tailboom Cover** details vary by model, but generally the helicopter tail boom cover encloses the tail boom from the "bottleneck" to the aft end. They usually also cover the horizontal stabilizers, and are custom made to allow for antennae, lights, and other protrusions. They attach with straps underneath the tail boom. Covers for the vertical and horizontal stabilizers are also available separately. Specific information for each model is available on request.



Full Cover Set

Description	Part Number	Price
TAILBOOM COVER	**500D-030**	**$455.00**
HORIZONTAL STAB. COVERS	**500D-420**	**$285.00**

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

The **McDonnell Douglas 500D Lightweight Travel Bubble Cover** is the same design as our standard bubble cover, but the material used is very lightwieight and will fold up and store in a smaller space.

Travel Covers are made with Silver Solution-Dyed Polyester fabric and fully lined over the entire cover. 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.



MD500C Bubble Cover with Wire Strike detail



Hughes 500D Bubble Cover with Wire Strike detail and Blade Tie-downs

Description	Part Number	Price
TRAVEL COVER, Light Weight Travel Bubble Cover (UPPER OAT PLACEMENT)	**500D-800**	**$825.00**
TRAVEL COVER, Light Weight Travel Bubble Cover WITH INTAKE COVER ADD-ON	**500D-805**	**$865.00**
TRAVEL COVER, Light Weight Travel Bubble Cover WITH INTAKE COVER ADD-ON & FORESTRY WINDOW	**500D-810**	**$1010.00**
TRAVEL COVER, Light Weight Travel Bubble Cover w/Wire Strike & Forestry Window	**500D-815**	**$1010.00**
TRAVEL COVER, Light Weight Travel Bubble Cover WITH INTAKE COVER ADD-ON, FORESTRY WINDOW & WIRE STRIKE	**500D-820**	**$1055.00**
TRAVEL COVER, Light Weight Travel Bubble Cover WITH WIRE STRIKE DETAIL	**500D-825**	**$865.00**
TRAVEL COVER, Light Weight Travel Bubble Cover WITH LOGGER WINDOW ADD-ON	**500D-835**	**$1010.00**
TRAVEL COVER, Light Weight Travel Bubble Cover, Yehnert Conversion, "pointy" nose	**500D-840**	**$865.00**
TRAVEL COVER, Light Weight Travel Bubble Cover, Yehnert Conversion, "pointy" nose	**500D-845**	**$880.00**
TRAVEL COVER, Light Weight Travel Bubble Cover w/intake cover add-on and logger windows, Yehnert Conversion, "pointy" nose	**500D-850**	**$1025.00**

Section 10: Inside the Hangar

**Padded Door Bags* are designed to provide portable protection of the doors when they are removed from the aircraft. They are padded to moderate thickness, zippered closed, and have sturdy carry handles for easy transport.



Protective Door Bags



MD 500D Padded Door Bags

Description	Part Number	Price
PROTECTIVE BAGS FOR REMOVABLE AFT DOORS, padded (set of 2)	**500D-095**	**$740.00**
PROTECTIVE BAGS FOR REMOVABLE FWD DOORS, padded (set of 2)	**500D-096**	**$740.00**
PROTECTIVE BAG FOR REMOVABLE DOOR W LOGGER WINDOW (pilot side only)	**500D-097**	**$440.00**

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.

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Aircraft Cover Ordering Form

Customer Info

Name _____

Shipping Address _____

_____

Phone & Email _____

Payment

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.*

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				
			TOTAL	

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*

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