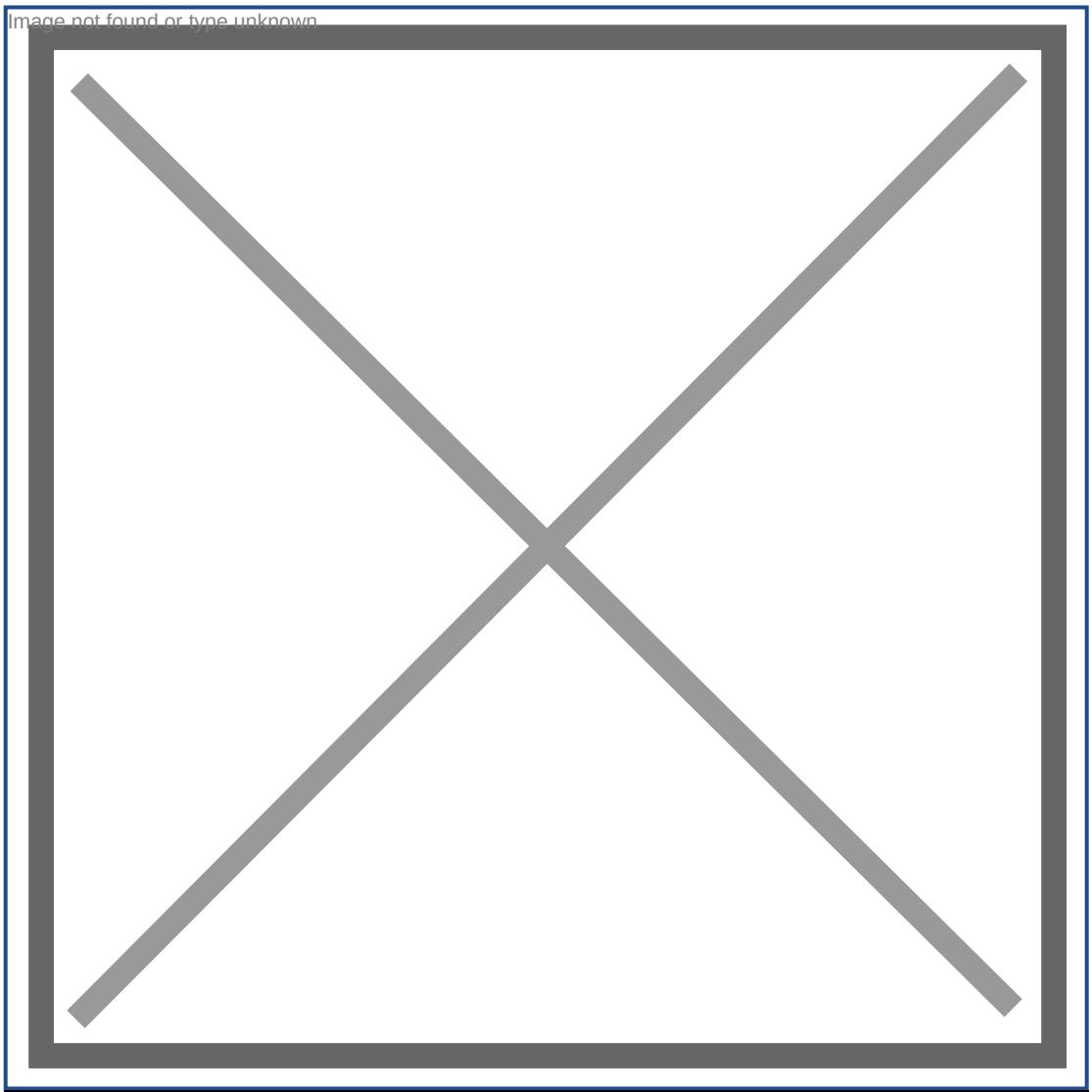
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Tech Sheet: Leonardo AW139, AW189

(leonardo-L139.pdf)



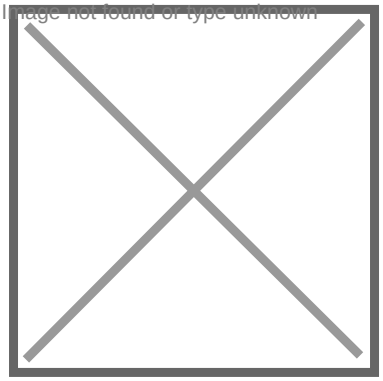
Sikorsky S-92 Windshield/Nose, Blade, Rotor Hub & Tail Rotor Covers

Section 1: Cockpit/Bubble Covers

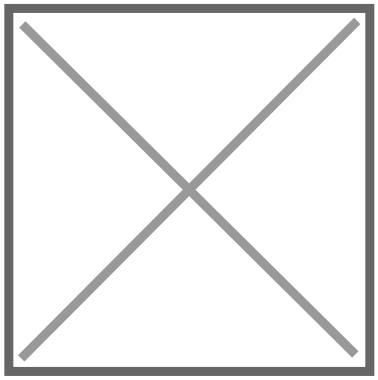
The **Leonardo AW139, AW189 Bubble Cover** helps reduce damage to the upholstery and avionics caused by excessive heat and can eliminate problems caused by leaking door and window seals. They keep the windshield and window surfaces clean and help prevent vandalism and theft.

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.



Sikorsky S-92 Windshield/Nose Cover (illustration)



Sikorsky S-92 Windshield/Nose, Blade, Rotor Hub & Tail Rotor Covers

Description	Part Number	Price
COCKPIT/NOSE COVER, short nose	**L139-000**	**$1810.00**
COCKPIT/NOSE COVER, long nose	**L139-005**	**$1810.00**
BUBBLE COVER, covers all windows, short nose	**L139-010**	**$2720.00**

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.

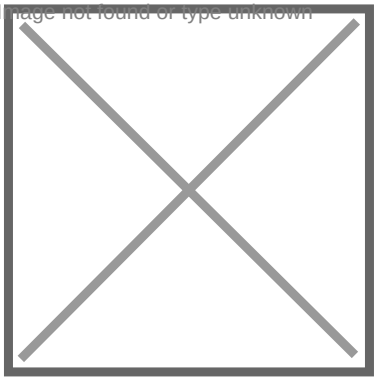
Rotor Hub Covers overlaps with the Blade Covers to ensure complete protection for the entire main rotor system. Designed like a jacket with sleeves and no collar, the rotor hub cover fastens together below each blade with *Delrin* buckles. The Rotor Hub Cover is normally made from Solution-Dyed Polyester.

Bruce's **Leonardo AW139, AW189 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.

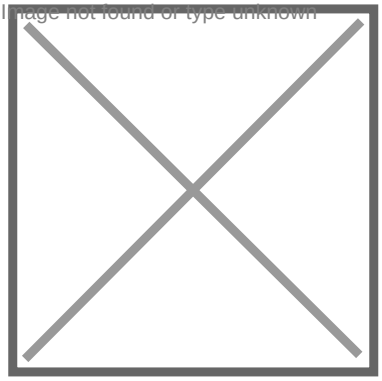
The **Leonardo AW139, AW189 Tail Rotor Cover** is a one-piece design which encloses both the blades and their hub, snapping closed along the bottom edge. The tail rotor cover is normally made from Solution-Dyed Polyester.

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.



Agusta AW139 Cockpit/Nose, Rotor Mast Cover



Agusta AW139 Rotor Mast Cover

Description	Part Number	Price
ENGINE AREA/MID CABIN COVER	**L139-100**	**$4835.00**
BLADE COVERS (set of 5)	**L139-200**	**$3150.00**
BLADE COVERS, cold weather (set of 5)	**L139-210**	**$4165.00**
ROTOR MAST COVER, tucks into swash plate opening	**L139-220**	**$1185.00**
ROTOR MAST COVER, covers upper deck fwd & aft of rotor mast area	**L139-225**	**$1900.00**
TAIL ROTOR BLADE COVERS (set of 4)	**L139-300**	**$470.00**
TAIL ROTOR HUB COVER	**L139-310**	**$455.00**
TAIL ROTOR DRIVE SHAFT COVER	**L139-400**	**$870.00**
BLADE TIE-DOWNS (fabric type) (set of 5)	**L139-500**	**$945.00**

Section 3: Plugs & Protection

The **Engine Exhaust Plugs** are custom fit for your Leonardo AW139, AW189 exhaust openings, made with heavy-duty vinyl material, and stuffed with a single block of sculpted urethane foam. Exhaust plugs have 'Remove Before Flight' streamers sewn onto the face of the plugs. Exhaust plugs may be inserted soon 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.

Description	Part Number	Price
EXHAUST PLUGS (set of 2)	**L139-125**	**$375.00**

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.

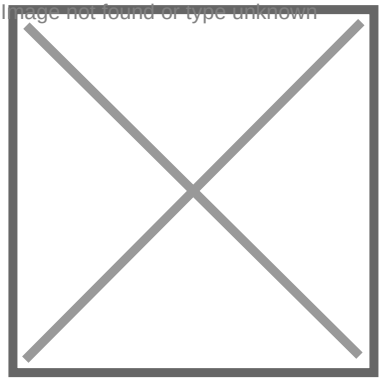
Description	Part Number	Price
TAILBOOM/VERTICAL STABILIZER/HORIZONTAL STABILIZER COVER	**L139-450**	**$8930.00**

Section 5: HeatShields & Sun Reflectors

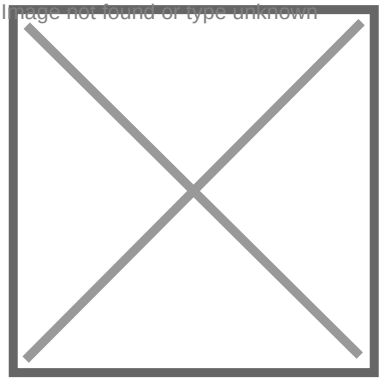
Cabin Heatshields are interior sunshades for the aircraft's passenger cabin area. The product is a unique composite of closed-cell foam with a silver mylar finish. The semi-rigid design is stiff enough to stand inside the window framing. The set folds up flat and is easily stored in the included storage sleeve. Some designs may require velcro and suction cups. A Heatshield is an excellent short-term remedy for cockpit overheating, but an external fabric cover is more effective for long-term protection.

Cockpit Heatshields are interior sunshades for the aircraft's cockpit. The product is a unique composite of closed-cell foam with a silver mylar finish. The semi-rigid design is stiff enough to stand inside the window framing. Darts and folds are incorporated into the material so that it conforms to the complex shape of the helicopter windows. The set folds up flat and is easily stored in the included storage sleeve. Some designs may require velcro and suction cups. A Heatshield is an excellent short-term remedy for cockpit overheating, but an external fabric cover is more effective for long-term protection.

Heatshields are interior sunshades for an aircraft's windows or canopy glass. The product is a unique composite of closed-cell foam with a silver mylar finish. The semi-rigid design is stiff enough to stand along the inside of the windshield using sun visors or window framing. It folds up flat and easily stores in the included storage sleeve. Some designs may require velcro and suction cups. A Heatshield is an excellent short-term remedy for cockpit overheating.



Agusta Power Cockpit HeatShields & Blade Tie-downs



Agusta 119 Cockpit/Cabin HeatShields

Description	Part Number	Price
COCKPIT HEATSHIELDS (set of 6)	**L139-900**	**$740.00**
HEATSHIELD SET (set of 12)	**L139-905**	**$1415.00**
CABIN HEATSHIELDS (set of 6)	**L139-910**	**$740.00**

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

The **Leonardo AW139, AW189 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.

Description	Part Number	Price
TRAVEL COVER, Light Weight Travel Cockpit/Nose Cover, short nose	**L139-800**	**$1450.00**
TRAVEL COVER, Light Weight Travel Cockpit/Nose Cover, long nose	**L139-810**	**$1450.00**
TRAVEL COVER, Light Weight Travel Bubble Cover, covers all windows, short nose	**L139-820**	**$2175.00**

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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