BRUCE'S CUSTOM COVERS
A division of Aircraft Covers, Inc.

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manufacturer of the finest custom-made aircraft covers

Tech Sheet: Piaggio Avanti P180

(piaggio-P180.pdf)

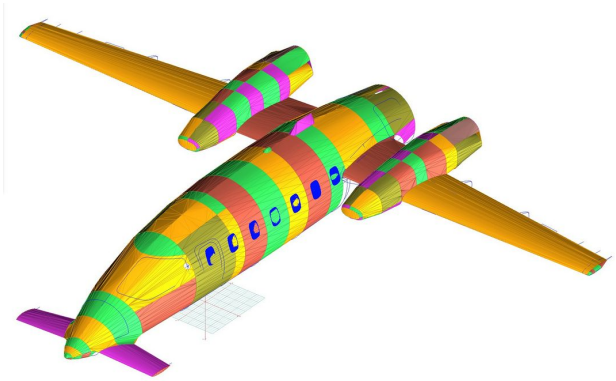


Piaggio 180 Fuselage/Nose Cover

Section 1: Canopy/Cockpit/Fuselage Covers

The **Canopy/Nose Cover** combines a Canopy Cover and a Nose cover. The Piaggio Avanti P180 Canopy/Nose Cover is designed to enclose the windshield, all side windows, canopy roof, and also extends forward to cover the nose. It is a one-piece cover. The Canopy/Nose Cover is custom designed for each model, as well as your aircraft's specific antenna and temperature probe placements. The Canopy/Nose Cover attaches using adjustable "belly straps", which run under the belly and connect to the other side of the cover with a quick-release plastic buckle. 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, Canopy Caps, etc.

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.



Piaggio P180 Fuselage, Canard, Wing & Engine Covers, 3D model



Piaggio P180 Fuselage/Canard Cover & Wing/Engine Covers (test fit covers)

Description	Part Number	Price
COCKPIT/NOSE COVER, extends back over door	**P180-000**	**$920.00**
CANOPY/NOSE COVER	**P180-005**	**$1495.00**
FUSELAGE/NOSE/CANARD COVER	**P180-010**	**$2545.00**

Section 2: Engine/Prop Covers

The **Piaggio Avanti P180 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.



Piaggio P180 Prop Ties



Piaggio P1080 Exhaust Covers & Prop Tie-Downs

Description	Part Number	Price

EXHAUST COVERS (set of 4)	**P180-120**	**$220.00**
ENGINE COVERS (set of 2)	**P180-125**	**$910.00**
INSULATED ENGINE COVERS (set of 2)	**P180-127**	**$1205.00**
PROP TIE-DOWNS (set of 2)	**P180-130**	**$310.00**
PROPELLOR/SPINNER COVERS, 5 Blade (set of 2)	**P180-135**	**$1020.00**
INSULATED PROPELLOR/SPINNER COVERS, 5 Blade (set of 2)	**P180-140**	**$1035.00**

Section 3: Plugs & Protection

Piaggio Avanti P180 Heat Resistant Pitot Tube Covers, are made of Naugahyde vinyl, and lined with a non-burning material. They are designed to cover the entire pitot assembly, slipping over the tube and tightening 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 our standard 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.

Piaggio Avanti P180 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.

Engine Inlet Plugs are custom fit for your Piaggio Avanti P180 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.**



Piaggio 180 Engine Plugs



Piaggio 180 Pitot & Rosemount Covers

Description	Part Number	Price
ENGINE INLET PLUGS (set of 2)	**P180-100**	**$295.00**
ENGINE INLET PLUGS, with "lips" cover extension (set of 2)	**P180-105**	**$420.00**
COWLING ENGINE PLUGS (does not include main engine inlet plugs) (set of 6)	**P180-110**	**$540.00**
A/C INLET/OUTLET PLUG SET (set of 2)	**P180-115**	**$190.00**
PITOT COVERS, heat resistant type (set of 2)	**P180-205**	**$150.00**

PITOT, TAT, (large hammer type) & ICE DETECTOR COVERS, heat resistant type (set of 4)	**P180-210**	**$235.00**
PITOT, TAT, (small straight type) & ICE DETECTOR COVERS, heat resistant type (set of 4)	**P180-211**	**$235.00**
AOA COVER (specify type)	**P180-250**	**$55.00**

Section 4: Wing/Tail/Empennage Covers

The **Piaggio Avanti P180 Empennage Cover** is a complete, one-piece cover which covers both the vertical and horizontal stabilizers, as well as the tailboom. It is normally made from *Solution-Dyed Polyester* or *Acrylic Sunbrella*. The cover attaches with adjustable straps underneath the belly. The cover is pulled back over the vertical stabilizer and a plastic all-weather zipper is closed at the trailing edge of the rudder. The cover is then stretched over the elevators and zippered closed along the bottom outboard elevator surfaces. The covers cinch under the horizontal stabilizers using adjustable straps. All antennas, beacons and static wicks, if applicable, are accounted for in the design.

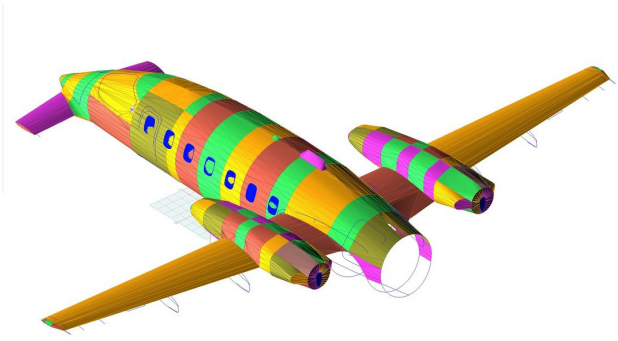
ALL-YEAR USE MATERIAL - Made with Silver Acrylic Sunbrella canvas, the all-year use material is the best option for sun protection and cover longevity. This heavier more durable material is intended for all weather conditions, such as rain and snow or lots of sun.

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 **Piaggio Avanti P180 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.



Piaggio P180 Fuselage, Canard, Wing & Engine Covers, 3D model



Piaggio P180 Fuselage/Canard Cover & Wing/Engine Covers (test fit covers)

Description	Part Number	Price
WING/ENGINE/CENTER SECTION COVERS, ALL YEAR USE (set of 2)	**P180-215**	**$2230.00**
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers)	**P180-405**	**$1700.00**

Section 5: HeatShields & Sun Reflectors

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. 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.



Piaggio 180 Cockpit HeatShields



Piaggio 180 Cockpit HeatShields

Description	Part Number	Price
COCKPIT HEATSHIELDS (set of 2)	**P180-900**	**$240.00**

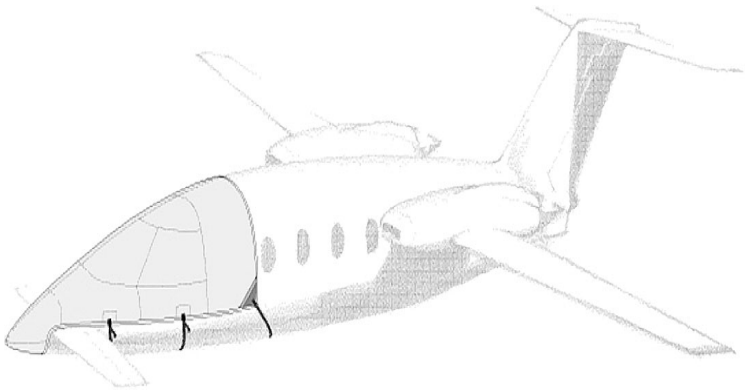
Section 7: Light Weight Products: Travel Covers and FlyAway Covers

The **Lightweight Travel Canopy/Nose Cover** will cover the same area as our standard canopy/nose 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 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.



Piaggio P180 Fuselage/Canard Cover & Wing/Engine Covers
(test fit covers)



Piaggio 180 Canopy/Nose Cover

Description	Part Number	Price
TRAVEL COVER, Light Weight Travel Cockpit/Nose Cover, extends back over door	**P180-810**	**$740.00**
TRAVEL COVER, Light Weight Travel Canopy/Nose Cover	**P180-820**	**$1200.00**

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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Propellor Cover Measuring Worksheet

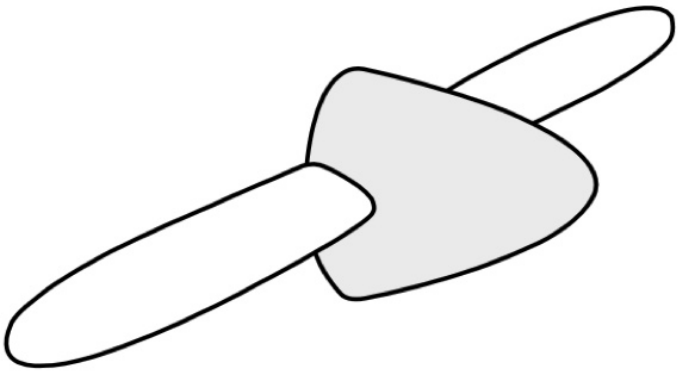
Instructions: Measure to the nearest 1/8" and only fill in what applies. You may email, fax or phone in the measurements.

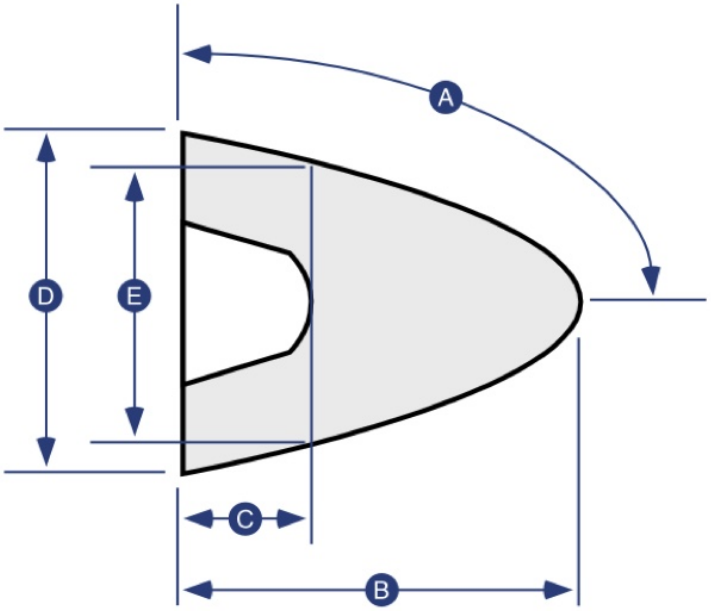
Aircraft Reg / Tail Number: _____ Aircraft Type: _____ Year: _____

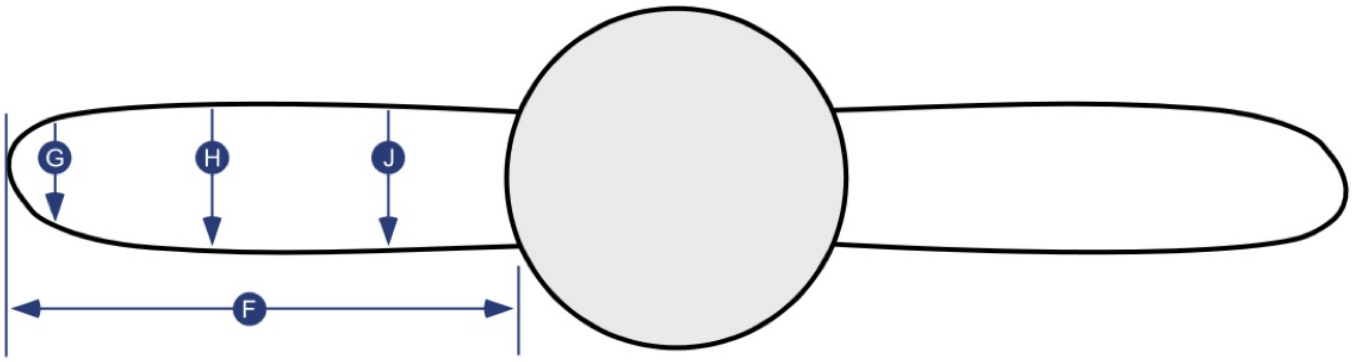
Name: _____ Phone & Email:

Propellor Measurements

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			







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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.....$30.00*

☐ ***Imprint** aircraft registration number onto Jet intake covers.....$50.00*

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