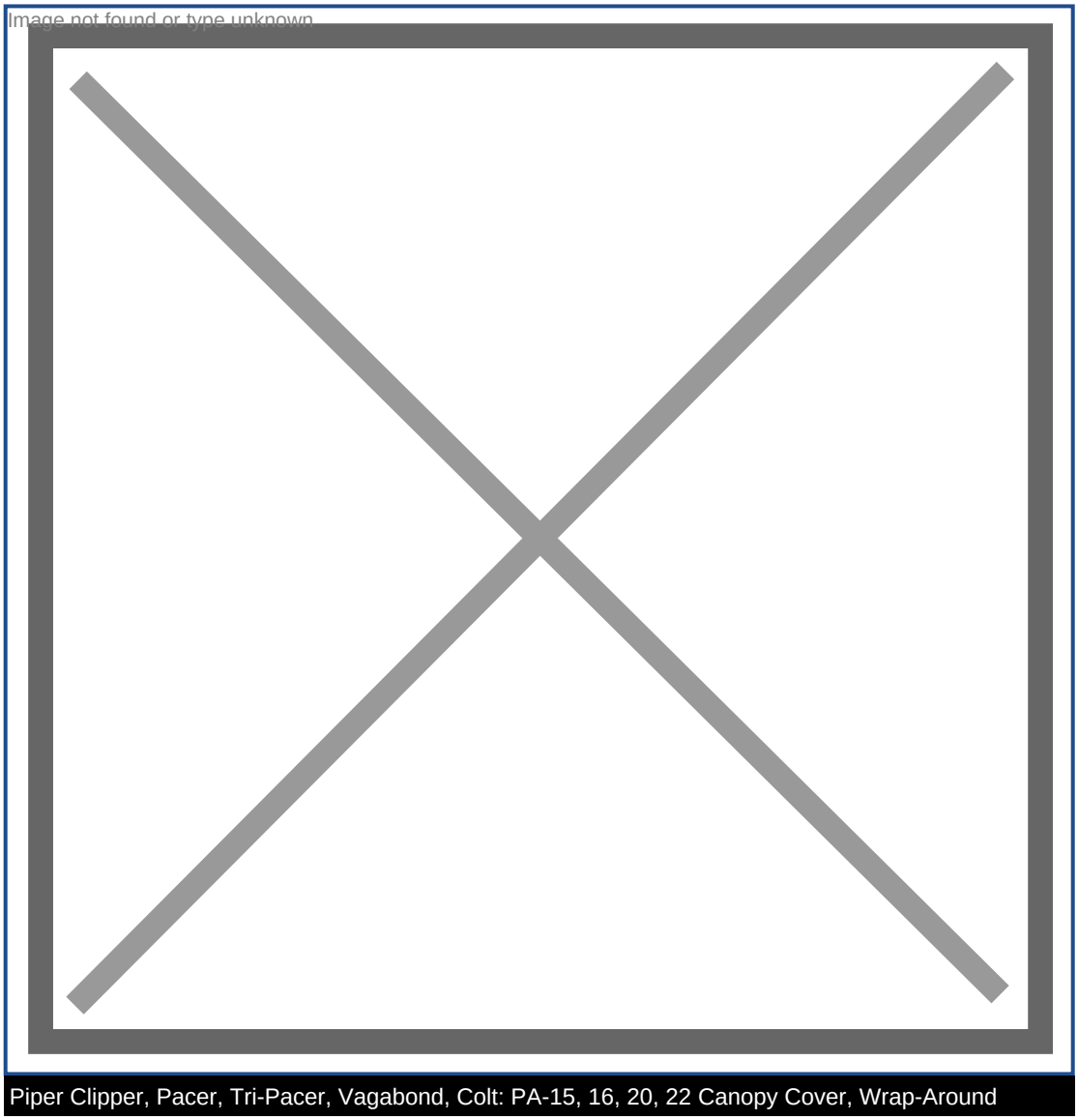
18850 Adams Ct
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manufacturer of the finest custom-made aircraft covers

Tech Sheet: Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22

(piper-PA20.pdf)



Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 Canopy Cover, Wrap-Around

Section 1: Canopy/Cockpit/Fuselage Covers

Canopy Covers help reduce damage to your airplane's upholstery and avionics caused by excessive heat, and they 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 **Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 Canopy Cover** is custom designed and fit for each model as well as your aircraft's specific antenna and possible temperature probe placements. The Canopy Cover is designed to enclose the windshield, side and rear window area. The Canopy Cover is a one-piece design, which wraps around the canopy and closes with Velcro behind the pilot's side door. The Velcro closure allows entry to the airplane without removing the entire cover. The Canopy Cover also attaches by two belly straps, one under the engine cowling and one under the tailboom. Belly straps are adjustable and detachable from either side using heavy-duty quick release plastic buckles. The buckles are padded to prevent scratching. 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, etc.

Each Canopy Cover is custom sewn and the corners are trimmed to match the colors of the airplane. The airplane's registration number can be imprinted onto both sides of the cover for an additional charge. A duffle bag is included with all Canopy Covers.

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.

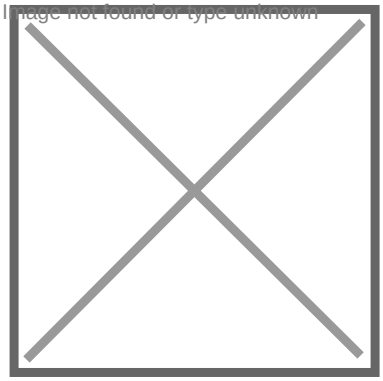
The **Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 Over-The-Top Style Canopy Cover** encloses the windshield, side and rear windows, and extends over the top of the airplane to cover the section between the wings. This is a one-piece design, which wraps around the canopy and closes with a Velcro closure behind the pilot's side door, and at the same place on the copilot's side of the cabin. By opening the Velcro closure on the door side, one can enter the airplane without removing the entire cover. The cover will extend over the top of the cabin area to cover the wing root fairings to help protect against leaks. The cover fastens with two belly straps that are adjustable and detachable from either side with heavy-duty quick-release plastic buckles. To keep the sides of the cover snug, special tightening straps are sewn onto the upper hem on each side. 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, etc.

Each Canopy Cover is custom sewn and the corners are trimmed to match the colors of the airplane. The airplane's registration number can be imprinted onto both sides of the cover for an additional charge. A duffle bag is included with all Canopy Covers.

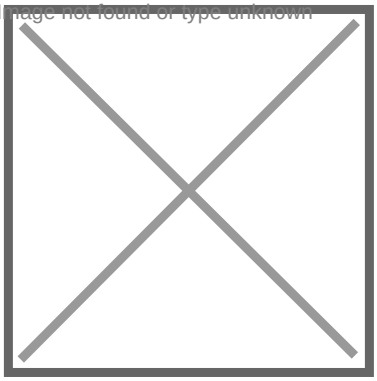
This cover type is made from Silver Acrylic Sunbrella canvas and is 100% lined with a soft and smooth microfiber. Bruce's Custom Covers developed this material combination especially for aircraft protection. The outer material is medium weight and treated for water resistance, UV resistance and anti-static 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.

The **Extended Canopy Cover, Over-The-Top Style** wraps around the airplane to cover all of the windows, extends over the top of the airplane to cover the section between the wings, and extends down to the main wheel struts to cover the entire side of the airplane. The cover will extend over the top of the cabin area to cover the wing root fairings to help protect against leaks. The cover fastens with two belly straps that are adjustable and detachable from either side with heavy-duty quick-release plastic buckles. To keep the sides of the cover snug against your Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22, special tightening straps are sewn onto the upper hem on each side. 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, 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.



Piper PA-20 Canopy Cover, over-top, 36" wing extensions



Piper PA-22 Canopy Cover

Description	Part Number	Price
CANOPY COVER, Wrap-Around	**PA20-000**	**$450.00**
CANOPY COVER, over top type	**PA20-010**	**$470.00**
CANOPY COVER (Over-Top Style, 36" wing ext.)	**PA20-011**	**$590.00**
EXTENDED CANOPY COVER, over-top type	**PA20-015**	**$590.00**
EXTENDED CANOPY COVER, over-top type, 36" wing ext.	**PA20-016**	**$710.00**

Section 2: Engine/Prop Covers

Engine Covers will cinch around or behind the spinner, cover the entire engine cowl area including the engine air cooling and induction air inlets, and fastens together with Velcro beneath the spinner down the front of the cowling. The Engine Cover is attached with a belly strap aft of the firewall, and can Velcro to the Canopy Cover. Engine Covers are normally made from Solution-Dyed Polyester or Acrylic *Sunbrella*. An Insulated version of the engine cover can be made with a thicker, quilted, and water-repellent material. The Insulated Engine Cover works well in cold climates to help with engine preheating.

FOR INTERIOR USE - Protect your airplane's engine inside a cold winter hangar with our reasonably priced **Insulated Hangar Blanket**. While not as form fitting as our custom fit insulated engine covers, the **Hangar Blanket** will work wonders to help protect your engine when used with a heating device. AVAILABLE IN RED OR BLACK.

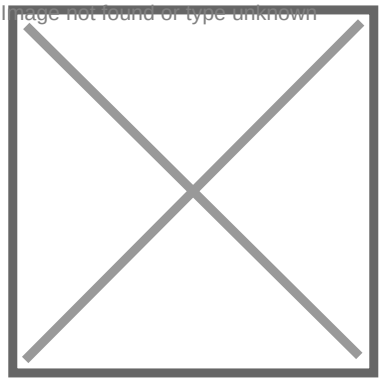
Insulated Covers Material - A special composite material of solution-dyed polyester, 3M Thinsulate insulation, and soft nylon interior fabric. Our insulated covers are designed to complement an engine preheater and help retain heat in the engine compartment after shutdown. If you operate your aircraft in cold-weather, these covers will help prevent engine wear and tear.

Sorry, custom flaps and preheater access is not available on the hangar blanketThe **Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 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.

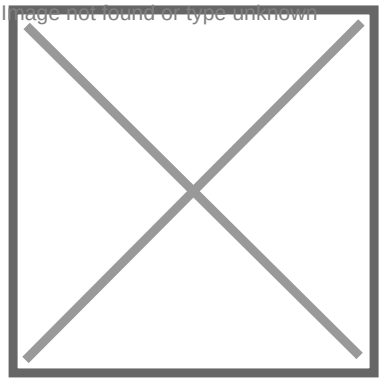
Insulated Covers Material - A special composite material of solution-dyed polyester, 3M Thinsulate insulation, and soft nylon interior fabric. Our insulated covers are designed to complement an engine preheater and help retain heat in the engine compartment after shutdown. If you operate your aircraft in cold-weather, these covers will help prevent engine wear and tear.

The **Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 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.



Piper PA-22-150 Pacer Extended Canopy, Engine & Prop/Spinner Covers

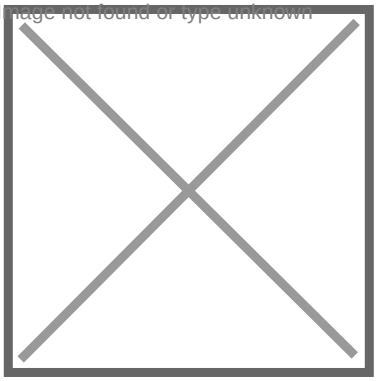


Piper PA-18 Super Cub Insulated Engine Cover

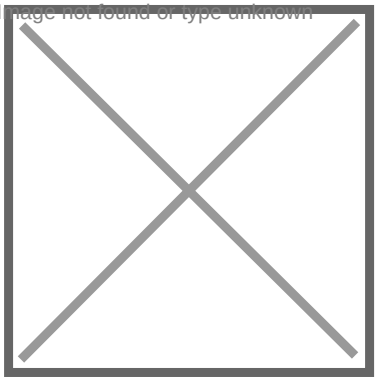
Description	Part Number	Price
ENGINE COVER (TAILDRAGGER MODEL), OPEN BOTTOM	**PA20-100**	**$400.00**
ENGINE COVER (NOSEGEAR MODEL), OPEN BOTTOM	**PA20-101**	**$400.00**
INSULATED ENGINE COVER (NOSEGEAR MODEL), FULLY ENCLOSED	**PA20-102**	**$520.00**
INSULATED ENGINE COVER (TAILDRAGGER MODEL), FULLY ENCLOSED	**PA20-103**	**$520.00**
ENGINE COVER (TAILDRAGGER MODEL), FULLY ENCLOSED	**PA20-104**	**$450.00**
ENGINE COVER (NOSEGEAR MODEL), FULLY ENCLOSED	**PA20-105**	**$450.00**
PROPELLOR/SPINNER COVER, 2 Blade	**PA20-110**	**$205.00**
INSULATED PROPELLOR/SPINNER COVER, 2 Blade	**PA20-112**	**$255.00**
INSULATED HANGAR BLANKET, INTERIOR USE	**PA20-HB3**	**$355.00**

Section 3: Plugs & Protection

Engine Inlet Plugs are custom fit for your Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 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.**



Piper PA-22-150 Engine Inlet Plugs



Piper PA-22-150 Engine Inlet Plugs (set of 3)

Description	Part Number	Price
ENGINE INLET PLUGS (set of 3)	**PA20-115**	**$195.00**
ENGINE INLET PLUGS (set of 4)	**PA20-117**	**$225.00**

Section 4: Wing/Tail/Empennage Covers

Horizontal Stabilizer Covers are a perfect solution to protect your paint from sun damage and prevent frost, snow, ice buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic *Sunbrella*. They cover the entire upper surface of the stabilizers and overlap around the leading and trailing edges as well as the wing tip. The covers secure under each stabilizer with adjustable straps. In some instances, cut-outs are made in the trailing edge of the wing covers to accommodate for static wicks. **Horizontal Stabilizer Covers** for winter use or long-term all year use are usually available, and are normally made from Solution-Dyed Polyester or Acrylic *Sunbrella*. A Hail Protection version can be made which incorporates 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.

The **Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 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.

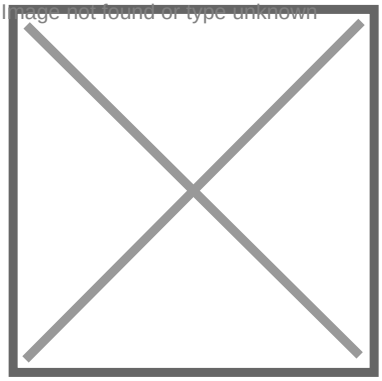
WINTER USE MATERIAL - Made with Solution-Dyed Polyester fabric, this option is intended for seasonal use to aid in deicing, rain mitigation, or for occasional travel. The material is lighter and more compact, but more susceptible to UV damage and may have a shorter useful life if used continuously outside than the all-year use material.

The **Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 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

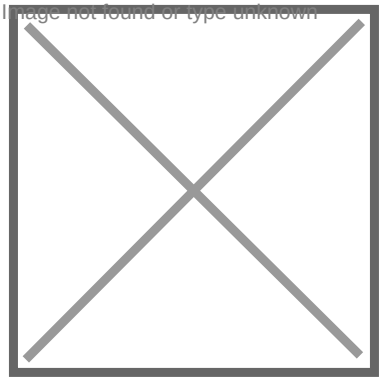
Sunbrella and form-fit to slip around each wing tip, cover the entire upper surface of the wing and wrap around the leading and trailing edges. The covers secure under the wing with adjustable straps from the trailing edge to the leading edge. The wing covers can also attach to each other with adjustable 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.



1957 PA-22-150 Over the Top Style Canopy Cover



PA-20 Cover Set

Description	Part Number	Price
WING COVERS, WINTER USE (set of 2)	**PA20-200**	**$480.00**
WING COVERS, WINTER USE, w/ hail proteciton (set of 2)	**PA20-201**	**$725.00**
WING COVERS, ALL YEAR USE (set of 2)	**PA20-205**	**$725.00**
WING COVERS, ALL YEAR USE, w/ hail proteciton (set of 2)	**PA20-206**	**$965.00**
HORIZONTAL STABILIZER COVERS, WINTER USE (set of 2)	**PA20-300**	**$155.00**
HORIZONTAL STABILIZER COVERS, ALL YEAR USE (set of 2)	**PA20-305**	**$245.00**
VERTICAL STABILIZER COVER, WINTER USE	**PA20-350**	**$155.00**
VERTICAL STABILIZER COVER, ALL YEAR USE	**PA20-355**	**$245.00**
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers), WINTER USE	**PA20-400**	**$505.00**
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers), ALL YEAR USE	**PA20-405**	**$570.00**

Section 5: HeatShields & Sun Reflectors

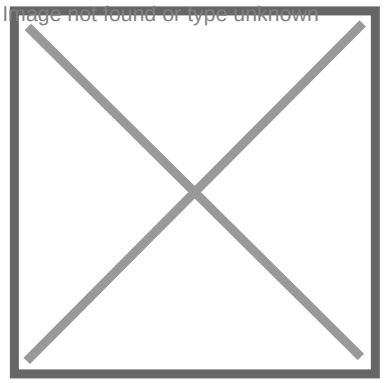
Heatshields are interior sunshades for an aircraft's windows or canopy glass. The product is a unique composite of closed-cell foam with a silver mylar finish. The semi-rigid design is stiff enough to stand along the inside of the windshield using sun visors or window framing. It folds up flat and easily 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.

Windshield Heatshields are interior sunshades for an aircraft's front windshield. 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 or split right and left sides. A Heatshield is an excellent short-term remedy for cockpit overheating. An external fabric cover is far more effective and practical for long-term protection.

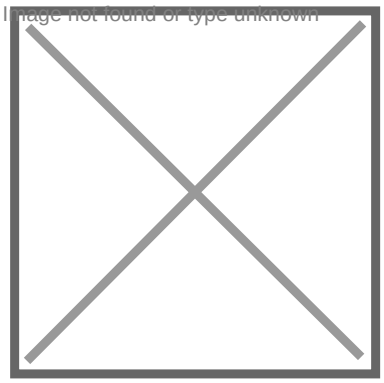
Description	Part Number	Price
WINDSHIELD HEATSHIELD	**PA20-900**	**$110.00**
HEATSHIELD SET (set of 5)	**PA20-910**	**$275.00**

Section 6: Miscellaneous Products

The **Piper Clipper, Pacer, Tri-Pacer, Vagabond, Colt: PA-15, 16, 20, 22 Tailcone Cover** fits onto the tailcone area to cover the holes that birds can fly into and nest. The cover easily straps onto the leading edge of the horizontal stabilizer with padded hooks or overlaps with the elevators slightly and attaches under the horizontal stabilizers with adjustable straps. Tailcone Covers are normally made with Solution-Dyed Polyester or Acrylic *Sunbrella*.



Piper PA-22 Tri-Pacer Winter Cover Set



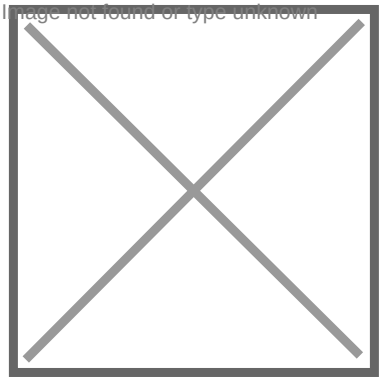
Piper PA-22 Tri-Pacer Winter Cover Set

Description	Part Number	Price
LANDING GEAR COVERS (set of 2)	**PA20-120**	**$360.00**
TIRE COVERS (no wheelpant faring) (specify tire size) (set of 2)	**PA20-121**	**$185.00**
TIRE COVERS (no wheelpant faring) TRIPACER (specify tire size) (set of 3)	**PA20-122**	**$275.00**
GAS CAP COVERS (set of 2)	**PA20-125**	**$165.00**

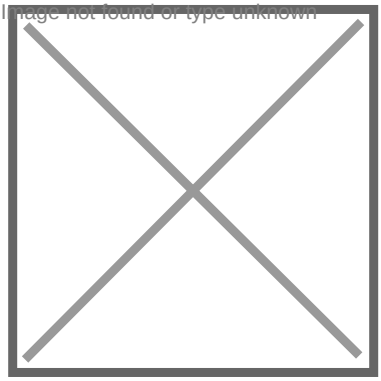
Section 7: Light Weight Products: Travel Covers and FlyAway Covers

The **Lightweight Travel Canopy Cover** will cover the same area as our standard Canopy 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 stored 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.



Piper PA-22 Tri-Pacer Travel Weight Canopy Cover



Piper PA-22-150 Pacer Extended Canopy, Engine & Prop/Spinner Covers

Description	Part Number	Price
TRAVEL COVER, Light Weight Canopy Cover (Wrap-Around)	**PA20-800**	**$360.00**
TRAVEL COVER, Light Weight Canopy Cover (Over-Top Style)	**PA20-805**	**$380.00**
TRAVEL COVER, Light Weight Extended Canopy Cover (Over-Top Style)	**PA20-810**	**$475.00**

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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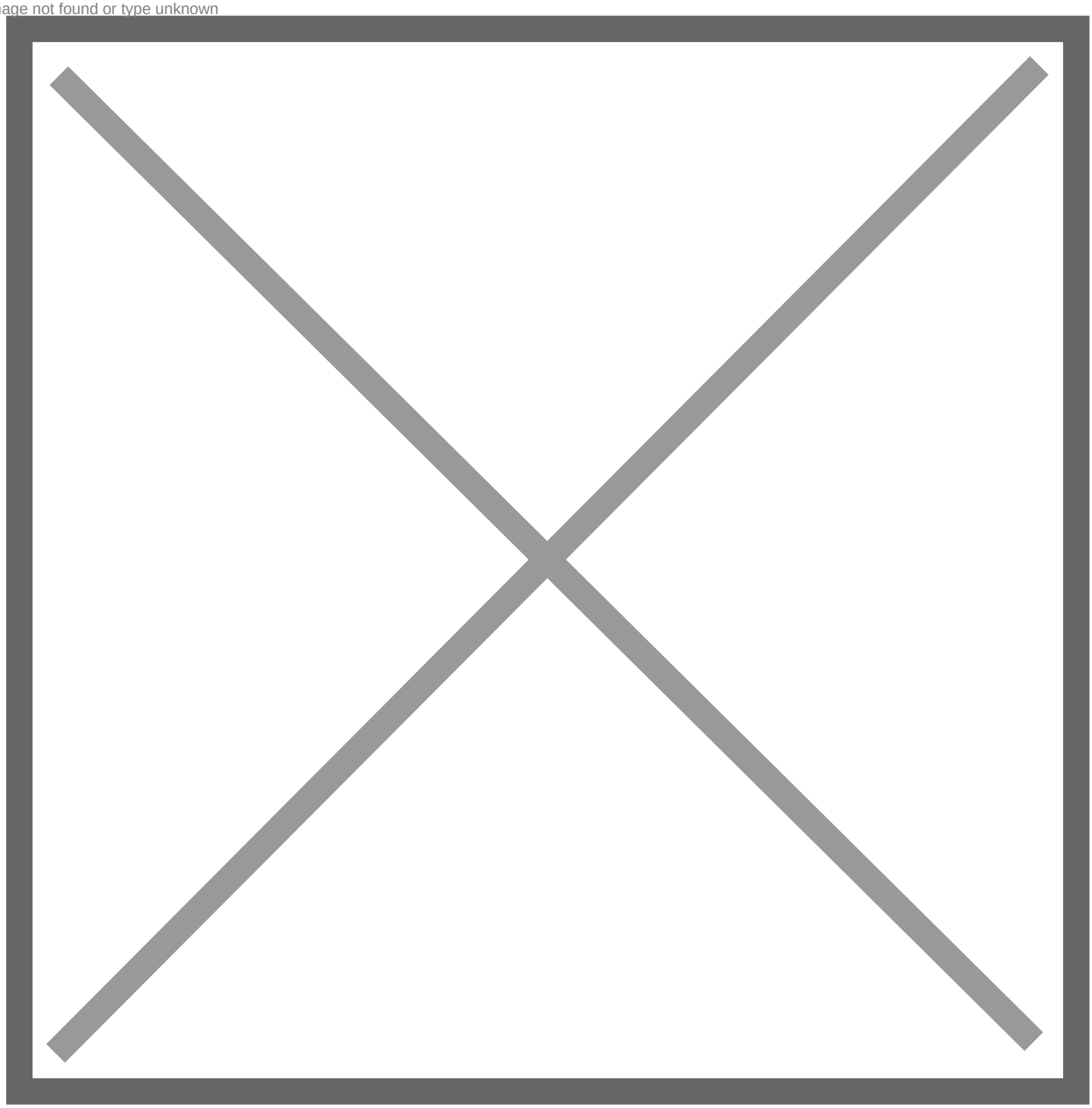


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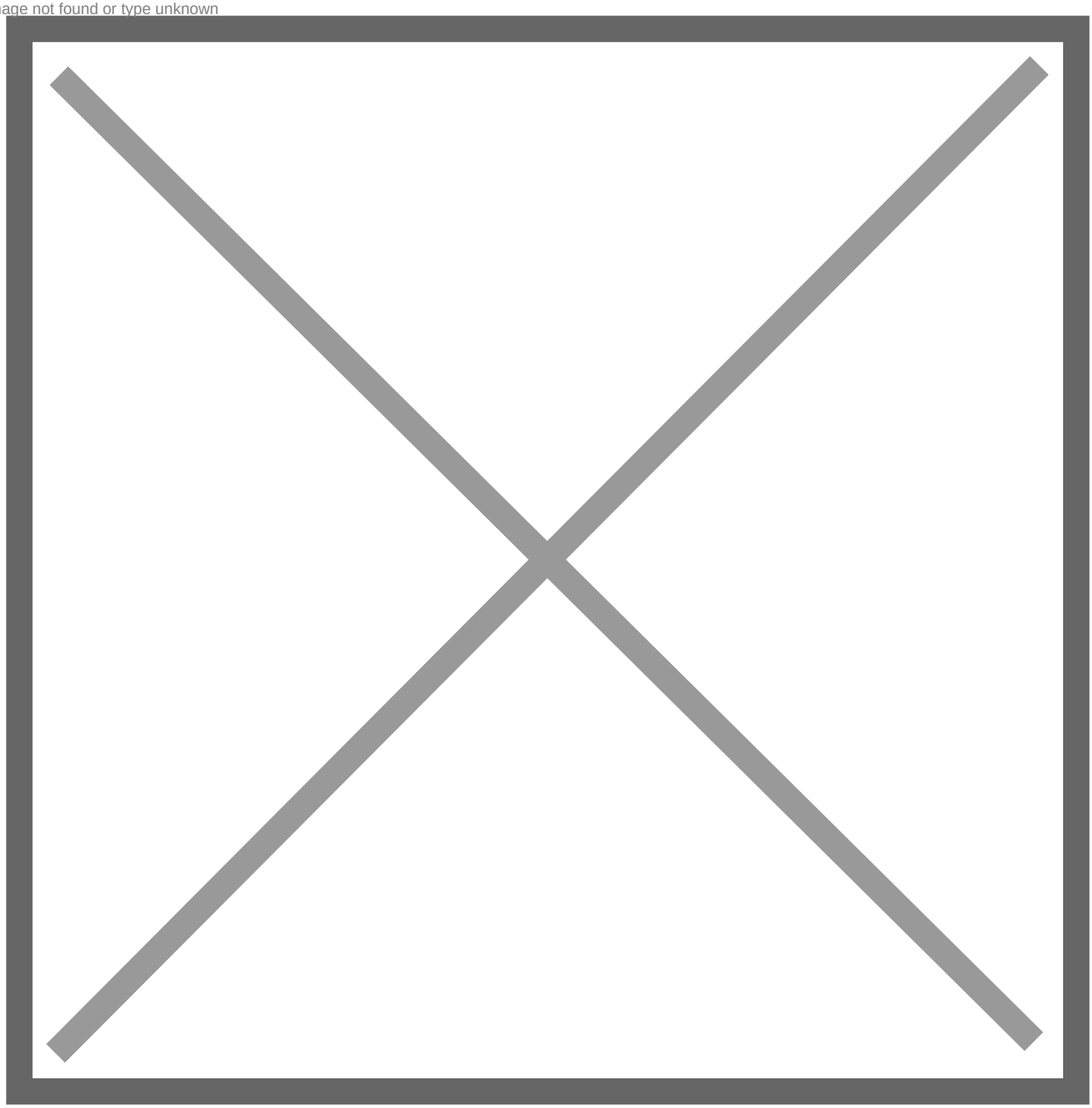


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