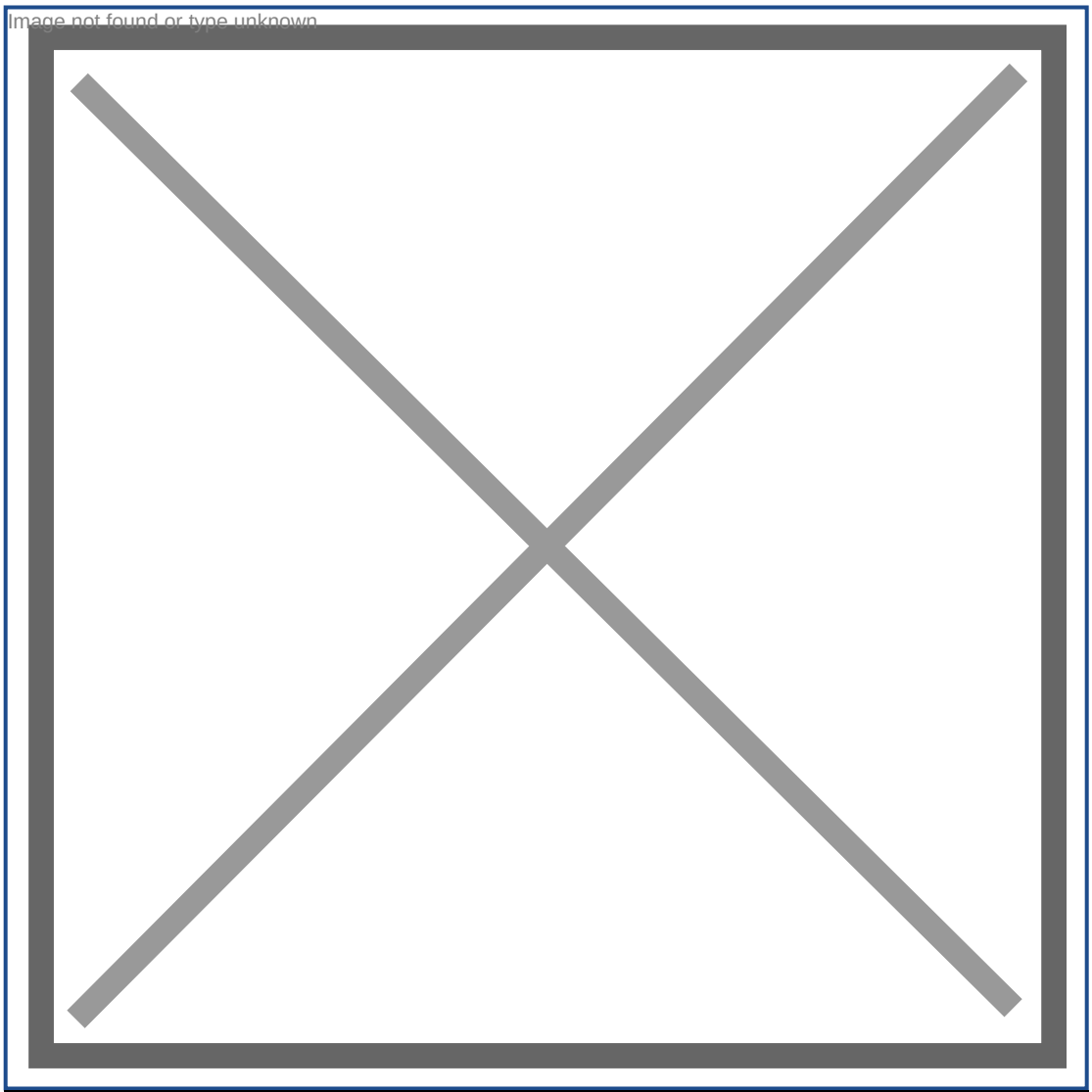
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Tech Sheet: Piper PA-24 Comanche

(piper-PA24.pdf)



Piper PA24-180 Comanche Canopy Cover

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 PA-24 Comanche Canopy Cover** is designed to enclose the windshield, all side windows and canopy roof. The Canopy Cover is custom designed for each model, as well as your aircraft's specific antenna and temperature probe placements. The Canopy 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.

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.

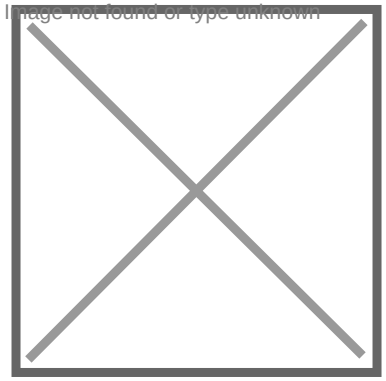
Extended Canopy/Engine Covers are one-piece covers (100% lined with microfiber) that are a combination of the Extended Canopy Cover and Engine Cover. This cover will enclose the engine cowl and will extend aft to cover all of the windows. It will also extend down the side of the airplane further than the normal Canopy/Engine Cover.

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.

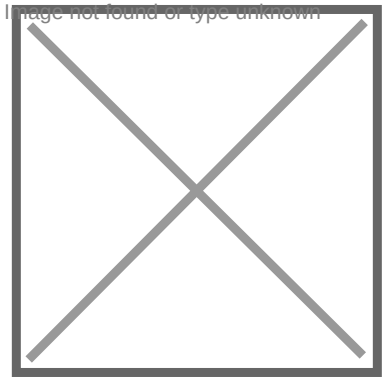
The **Piper PA-24 Comanche Canopy/Engine Cover** is a one-piece cover (100% lined with microfiber) that is a combination of the Canopy Cover and Engine Cover. This cover will enclose the engine cowl and will extend aft to cover all of the windows. This cover type is made from Silver Acrylic Sunbrella 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** takes our standard Canopy Cover design and extends it down to the wing root to overlap with the Wing Covers, an Engine Cover and an Empennage Cover. It is designed to cover the entire door. To ensure the most secure fit, high-quality shock cord is sewn in the hem of the cover. This chord is also adjustable for tightness. This is the Canopy Cover you would need as part of a full cover set.

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 PA28-140 Hail Protection thick wing style w/Metco Tip Wing Covers



Piper PA-28 Turbo Arrow Extended Canopy Cover & Engine Inlet Plugs

Description	Part Number	Price
CANOPY COVER, BELLY STRAP TYPE	**PA24-000**	**$570.00**
CANOPY COVER, SNAP/BELLY STRAP TYPE	**PA24-001**	**$570.00**
CANOPY COVER, SNAP-ON TYPE	**PA24-015**	**$570.00**
CANOPY COVER, BELLY STRAP TYPE, extends to tail	**PA24-020**	**$690.00**
CANOPY/ENGINE COVER	**PA24-025**	**$930.00**
EXTENDED CANOPY COVER, down to wing roots	**PA24-030**	**$690.00**
EXTRA EXTENDED CANOPY COVER, down to wing roots & extends to tail	**PA24-033**	**$750.00**
EXTENDED CANOPY/ENGINE COVER	**PA24-035**	**$930.00**
EXTRA EXTENDED CANOPY/ENGINE COVER, extends to tail	**PA24-040**	**$1005.00**
EXTENDED CANOPY COVER, hail protection	**PA24-056**	**$1030.00**

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.

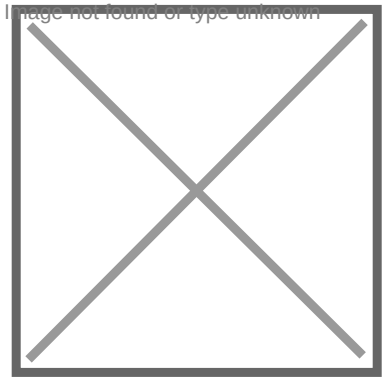
Sorry, custom flaps and preheater access is not available on the hangar blanketThe **Piper PA-24 Comanche Insulated Engine Cover** works well in cold climates to help with engine preheating. You can add an access flap for an additional fee. It will cinch around or behind the spinner, cover the entire 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

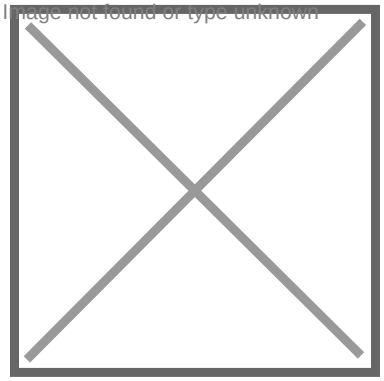
fabric. Our insulated covers are designed to complement an engine preheater and help retain heat in the engine compartment after shutdown. If you operate your aircraft in cold-weather, these covers will help prevent engine wear and tear.

The **Piper PA-24 Comanche 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-24 Comanche Canopy, Engine, Wing Covers



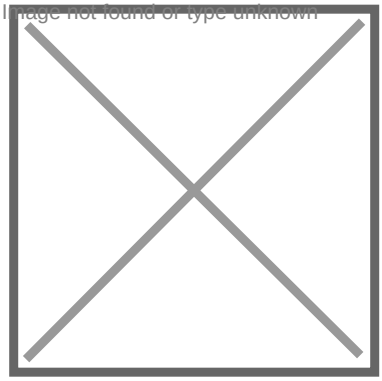
Piper Comanche Insulated Engine Cover, snap-on type

Description	Part Number	Price
ENGINE COVER (oval carb inlet)	**PA24-120**	**$400.00**
INSULATED ENGINE COVER (oval carb inlet)	**PA24-121**	**$520.00**
ENGINE COVER, oval carb inlet, partially covers nose gear well	**PA24-122**	**$460.00**
ENGINE COVER (rectangular carb inlet)	**PA24-123**	**$400.00**
INSULATED ENGINE COVER (rectangular carb inlet)	**PA24-124**	**$520.00**
ENGINE COVER, 260C model	**PA24-125**	**$400.00**
INSULATED ENGINE COVER, 260C model	**PA24-126**	**$520.00**
ENGINE COVER, 400 model	**PA24-127**	**$400.00**
INSULATED ENGINE COVER, 400 model	**PA24-128**	**$520.00**
ENGINE COVER, (specify Year & Model), padded for hail protection	**PA24-129**	**$930.00**
PROPELLOR/SPINNER COVER, 2 blade	**PA24-130**	**$205.00**
INSULATED PROPELLOR/SPINNER COVER, 2 Blade	**PA24-132**	**$255.00**
PROPELLOR/SPINNER COVER, 3 blade	**PA24-135**	**$310.00**
INSULATED PROPELLOR/SPINNER COVER, 3 Blade	**PA24-137**	**$370.00**
INSULATED HANGAR BLANKET, INTERIOR USE	**PA24-HB4**	**$355.00**

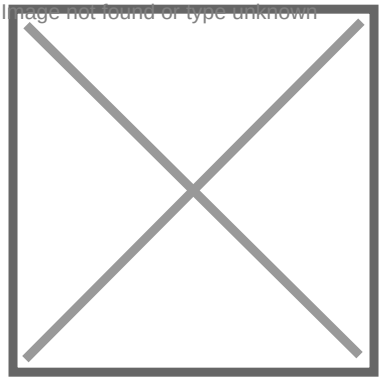
Section 3: Plugs & Protection

Piper PA-24 Comanche 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 Piper PA-24 Comanche 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-24-260 C Engine Inlet Plugs (set of 2)



Piper PA-24 Comanche Extended Canopy Cover, Engine Plugs

Description	Part Number	Price
ENGINE INLET PLUGS (set of 2)	**PA24-100**	**$190.00**
ENGINE INLET PLUGS (Lo Presti Speed Mod) (set of 3)	**PA24-101**	**$195.00**
DORSAL PLUGS (Lo Presti Mod) (set of 2)	**PA24-102**	**$130.00**
ENGINE INLET PLUGS (TURBO 260) (set of 2)	**PA24-105**	**$190.00**
ENGINE INLET PLUGS (Comanche 400) (set of 4)	**PA24-108**	**$315.00**
CARB AIR INLET PLUG (oval shape)	**PA24-110**	**$80.00**
CARB AIR INLET PLUG (rectangle shape)	**PA24-115**	**$80.00**
CABIN AIR SCOOP PLUG	**PA24-116**	**$65.00**
CHIN SCOOP PLUGS (set of 2)	**PA24-117**	**$80.00**
PITOT COVER (original pitot tube)	**PA24-HP1**	**$35.00**

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 PA-24 Comanche 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.

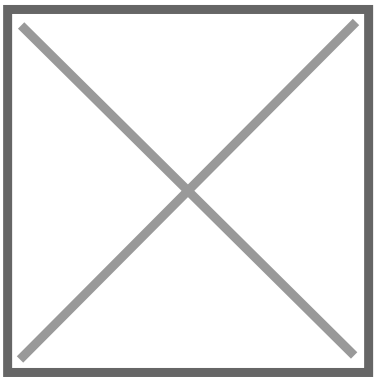
WINTER USE MATERIAL - Made with Solution-Dyed Polyester fabric, this option is intended for seasonal use to aid in deicing, rain mitigation, or for occasional travel. The material is lighter and more compact, but more susceptible to UV damage and may have a shorter useful life if used continuously outside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

The **Piper PA-24 Comanche 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*.

The **Piper PA-24 Comanche 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.



Piper PA-24 Comanche Canopy, Engine, Wing Covers

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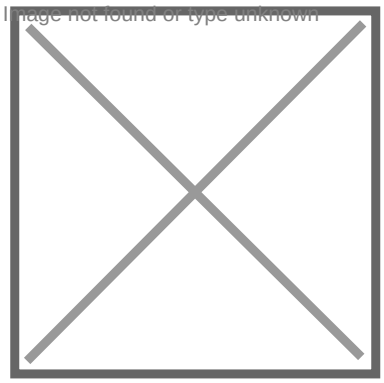
Piper PA-24 Comanche Extended Canopy/Engine Cover, Wing & Horizontal Stab Covers

Description	Part Number	Price
WING COVERS (standard wingtips), WINTER USE (set of 2)	**PA24-200**	**$520.00**
WING COVERS (standard wingtips), ALL YEAR USE (set of 2)	**PA24-205**	**$750.00**
WING COVERS WITH TIP TANKS, WINTER USE (set of 2)	**PA24-210**	**$640.00**
WING COVERS WITH TIP TANKS, ALL YEAR USE (set of 2)	**PA24-215**	**$870.00**
WING COVERS (Johnson & Metco wingtips), WINTER USE (set of 2)	**PA24-220**	**$520.00**
WING COVERS (Johnson & Metco wingtips), ALL YEAR USE (set of 2)	**PA24-225**	**$750.00**
WING COVERS (standard wingtips), hail protection type, WINTER USE (set of 2)	**PA24-240**	**$880.00**
WING COVERS (standard wingtips), hail protection type, ALL YEAR USE (set of 2)	**PA24-245**	**$1005.00**
HORIZONTAL STABILIZER COVERS, WINTER USE (set of 2)	**PA24-300**	**$295.00**
HORIZONTAL STABILIZER COVERS, padded for hail protection, WINTER USE (set of 2)	**PA24-302**	**$415.00**
HORIZONTAL STABILIZER COVERS, ALL YEAR USE (set of 2)	**PA24-305**	**$345.00**
HORIZONTAL STABILIZER COVERS, padded for hail protection, ALL YEAR USE (set of 2)	**PA24-307**	**$465.00**
HORIZONTAL STABILIZER COVERS (with mass balance beam), WINTER USE (set of 2)	**PA24-310**	**$315.00**
HORIZONTAL STABILIZER COVERS (with mass balance beam), ALL YEAR USE (set of 2)	**PA24-315**	**$360.00**
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers) (non counterbalance models), WINTER USE	**PA24-400**	**$670.00**
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers) (non counterbalance models), ALL YEAR USE	**PA24-405**	**$795.00**
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers) (w/counterbalances), WINTER USE	**PA24-410**	**$795.00**
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers) (w/counterbalances), ALL YEAR USE	**PA24-415**	**$920.00**
TAILCONE COVER	**PA24-500**	**$240.00**

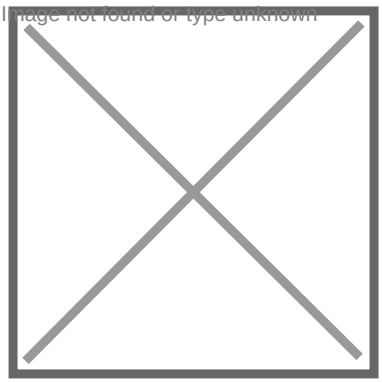
Section 5: HeatShields & Sun Reflectors

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.



Piper Comanche Windshield HeatShield

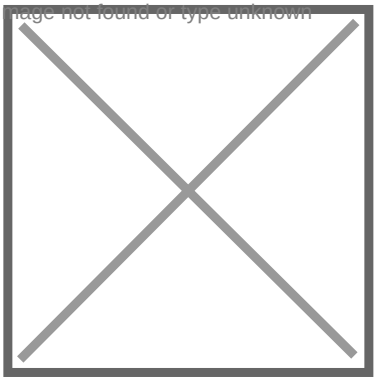


Piper Comanche HeatShield Set

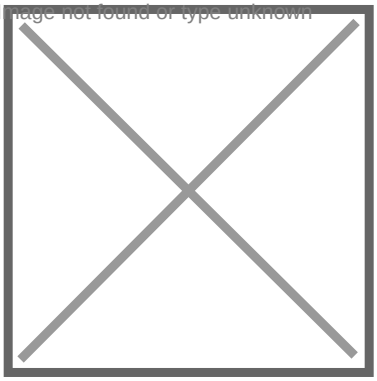
Description	Part Number	Price
WINDSHIELD HEATSHIELD (original windshield, one or two-piece)	**PA24-900**	**$110.00**
WINDSHIELD HEATSHIELD (longer Knots-2-U windshield)	**PA24-901**	**$110.00**
HEATSHIELD SET (2 side windows, original windshield, one or two-piece) (set of 5)	**PA24-910**	**$230.00**
HEATSHIELD SET (2 side windows, longer Knots-2-U windshield) (set of 5)	**PA24-911**	**$230.00**
HEATSHIELD SET (3 side windows, original windshield, one or two-piece) (set of 7)	**PA24-915**	**$275.00**
HEATSHIELD SET (3 side windows, longer Knots-2-U windshield) (set of 7)	**PA24-916**	**$275.00**

Section 6: Miscellaneous Products

The **Piper PA-24 Comanche 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 PA28-140 Tire Covers



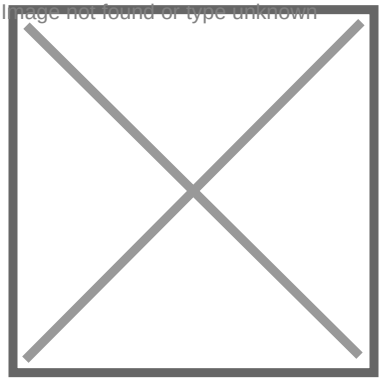
Piper PA-24 Main Landing Gear Covers, test fit

Description	Part Number	Price
TIRE COVERS (specify tire size) (set of 3)	**PA24-166**	**$275.00**
LANDING GEAR COVERS (set of 3)	**PA24-505**	**$650.00**

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.



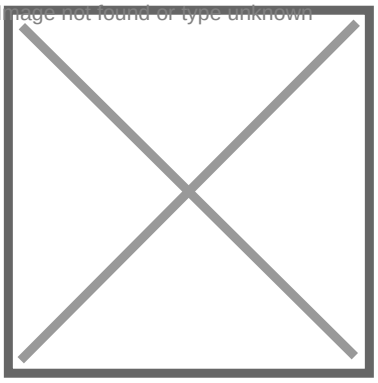
Piper PA-24 Comanche Travel Cover, Light Weight Travel Canopy Cover

Description	Part Number	Price
TRAVEL COVER, Light Weight Canopy Cover	**PA24-800**	**$455.00**

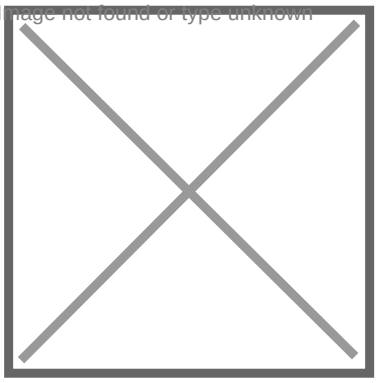
Section 10: Inside the Hangar

Designed to prevent damage to the aircraft extremities in crowded hangars, these products are made of bright red Naugahyde and thickly padded with a sandwich of closed cell foam. Nowadays they are also made using bright read Neoprene padded laminted

(think: wetsuit material).



Cirrus SR-20/22 Wingtip Pads



Piper PA-28-140 Wingtip Pads

Description	Part Number	Price
WINGTIP PADS (set of 2)	**PA24-275**	**$305.00**
GAS TANK COVERS (set of 2)	**PA24-280**	**$500.00**
HORIZONTAL STABILIZER TIP PADS (set of 2)	**PA24-320**	**$275.00**

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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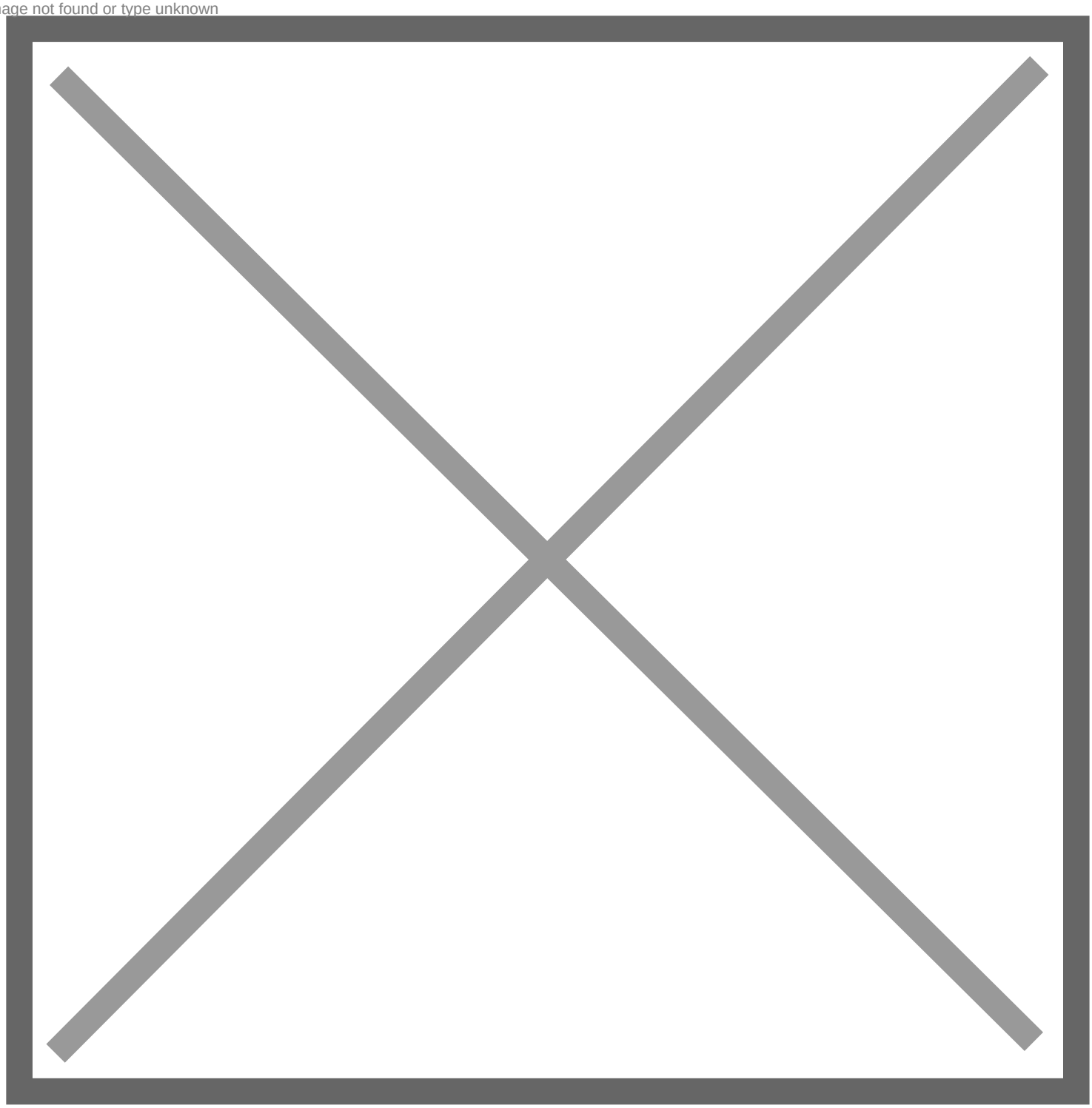


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