

# Tech Sheet: Stearman Trainer: PT-13, PT-17, N2S-1-5, A75, E75, etc.

(stearman-PT13.pdf)



PT-13 Canopy Cover, Belly Strap Type

## 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 **Stearman Trainer: PT-13, PT-17, N2S-1-5, A75, E75, etc. Canopy Cover** is designed to enclose the entire canopy area. 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. **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 duffel 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.



N3N Canopy Cover



Waco ASO Canopy Cover

Description	Part Number	Price
CANOPY COVER, BELLY STRAP TYPE	<b>PT13-005</b>	<b>\$655.00</b>
EXTENDED CANOPY COVER	<b>PT13-010</b>	<b>\$955.00</b>
EXTRA EXTENDED CANOPY/EMPENNAGE COVER	<b>PT13-015</b>	<b>\$1550.00</b>

## 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 Custom Fit Hangar Blanket**. Not as form fitting as our Insulated Engine Covers, but designed to fit this model's unique engine cowling shape, the **Custom Fit 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.

The **Stearman Trainer: PT-13, PT-17, N2S-1-5, A75, E75, etc. 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 **Stearman Trainer: PT-13, PT-17, N2S-1-5, A75, E75, etc. 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.



Stearman Trainer A75 Engine Cover (Continental Engine)    Travel Air 4000 Canopy and Engine Covers, light weight travel type

Description	Part Number	Price
ENGINE COVER, Continental engine	PT13-105	\$505.00
ENGINE COVER (Continental engine, also covers bottom & back to cabane struts)	PT13-106	\$545.00
ENGINE COVER, Lycoming engine	PT13-107	\$505.00
ENGINE COVER (P&W R985 Wasp engine, also covers bottom & back to cabane struts)	PT13-108	\$545.00
INSULATED ENGINE COVER (P&W R985 Wasp engine, also covers bottom & back to cabane struts)	PT13-109	\$765.00
INSULATED ENGINE COVER, Lycoming engine	PT13-110	\$695.00
INSULATED ENGINE COVER (Continental engine, also covers bottom & back to cabane struts)	PT13-111	\$765.00
INSULATED ENGINE COVER, Continental engine	PT13-112	\$695.00
ENGINE COVER, 275 Jacobs engine	PT13-113	\$505.00
INSULATED HANGAR BLANKET, custom fit, INTERIOR USE	PT13-114	\$560.00
PROPELLOR/SPINNER COVER	PT13-115	\$300.00
INSULATED PROPELLOR/SPINNER COVER	PT13-117	\$450.00

### Section 3: Plugs & Protection

**Stearman Trainer: PT-13, PT-17, N2S-1-5, A75, E75, etc. 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	PT13-120	\$55.00
EXHAUST PLUG	PT13-130	\$80.00

**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 **Stearman Trainer: PT-13, PT-17, N2S-1-5, A75, E75, etc. 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.



Boeing Stearman PT-13 Canopy, Wing & Horiz. Stab Covers



Waco UPF-7 Horizontal Stab. Cover

Description	Part Number	Price
UPPER WING COVER, ALL YEAR USE	<b>PT13-200</b>	<b>\$875.00</b>
LOWER WING COVERS, ALL YEAR USE (set of 2)	<b>PT13-205</b>	<b>\$725.00</b>

CENTER SECTION COVER	PT13-210	\$245.00
UPPER WING COVER, WINTER USE	PT13-220	\$700.00
LOWER WING COVERS, WINTER USE (set of 2)	PT13-225	\$580.00
HORIZONTAL STABILIZER COVERS, ALL YEAR USE (set of 2)	PT13-300	\$510.00
EMPENNAGE COVER	PT13-400	\$785.00
TAILBOOM COVER	PT13-450	\$365.00

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

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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.

Description	Part Number	Price
TRAVEL COVER, Light Weight Canopy Cover	PT13-801	\$505.00

## Section 10: Inside the Hangar

Some high value aircraft end up logging lots of hangar time, and become dust magnets in the process. A high quality, well fitting dust cover provides easy assurance that the aircraft's surfaces remain clean and free of grit and grime. Available in a large variety of colors, each dust cover is custom made according to aircraft details and customer preferences. Fire retardant fabrics are also available.



#6: Three ropes on one hoist.



#1: Out of the bag.

Description	Part Number	Price
DUST COVER (complete coverage), Prop Cover Included (set of 2)	PT13-800	\$2500.00

**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.**

**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
<b>A</b> Measure along surface of cone			
<b>B</b> Measure "straight line" base to tip			
<b>C</b> Base to top of blade root opening			
<b>D</b> Provide diameter or circumference			
<b>E</b> Provide diameter or circumference			
<b>F</b> Blade root to prop tip			
<b>G</b> Trailing edge to leading edge			
<b>H</b> Trailing edge to leading edge			
<b>J</b> Trailing edge to leading edge			



## Aircraft Cover Ordering Form

<b>Customer Info</b>	Name _____
	Shipping Address _____ _____
	Phone & Email _____
<b>Payment</b>	Credit Card Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	Exp. Date <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> V-Code* <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <small>*Visa, Mastercard, Discover: last 3 numbers on back of card, right of signature. Amex: 4 smaller numbers printed on face of card.</small>
<b>A/C Info</b>	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)

1	Part Number	Quant	Description	Price
2				
3				
4				
5				
6				
7				
8				
9				
10				
				<b>TOTAL</b>

**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