

## Tech Sheet: Mooney M-10 Cadet, & A-2A

(mooney-M10.pdf)



Ercoupe Canopy Cover, bubble windshield model

**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 **Mooney M-10 Cadet, & A-2A 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.

Each Canopy Cover is normally made from *Silver Acrylic Sunbrella* or *Silver Solution-Dyed Polyester* and is lined 100% 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 materials are extremely reflective, and tests show that the cabin interior temperature can be reduced to near-ambient temperature on even the hottest of days. It is water, ice and snow repellent, yet breathable enough to allow moisture to escape from between the cover and the aircraft surface. Our materials do not contain hydrocarbon compounds that can harm Plexiglas windshields and acrylic finishes. Other colors are available.

Please [contact us](/contact) for availability and price. We also have an ultra lightweight material available for fitted hangar dust covers.

The **Mooney M-10 Cadet, & A-2A 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.

**Engine Inlet Plugs** are custom fit for your Mooney M-10 Cadet, & A-2A 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 embroidered with the aircraft registration number in black. 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.**

**Pitot Tube Covers**, made of Naughahyde vinyl, are designed to cover the entire pitot assembly. Slipping on over the tube, the cover tightens around the base with a special Velcro strap detail. A "remove before flight" streamer is attached to the cover. **Non-burning Pitot Covers** are designed to withstand more than 500Å° Fahrenheit, and will prevent the pitot cover from melting onto the tube if the pitot heat is accidentally turned on with the pitot cover attached.

**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.

The **Mooney M-10 Cadet, & A-2A Insulated Engine Cover** is made with a thicker, quilted, water-repellent, and breathable material that is insulated on the inside. The Insulated Engine Cover works well in cold climates to help with engine preheating. It 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 Insulated Engine Cover is attached with a belly strap aft of the firewall, and can Velcro to the Canopy Cover if desired.

The **Mooney M-10 Cadet, & A-2A 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.

The **Mooney M-10 Cadet, & A-2A 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.

**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.

The **Mooney M-10 Cadet, & A-2A 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 Velcro to the aft edge of the Extended Canopy Cover and 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.



Ercoupe Canopy Cover, flat windshield model



Ercoupe Canopy Cover, flat windshield model



Ercoupe Canopy Cover, flat windshield model



Ercoupe Canopy Cover, flat windshield model



Ercoupe full cover set: Extended Canopy, Engine, Wing & Empennage covers

# Current Products List (as of 4/12/16)

Description	Part No.	Price
CANOPY COVER (ALON MODEL)	M10-010	\$375.00
CANOPY/ENGINE COVER (ALON MODEL)	M10-011	\$600.00
CANOPY/ENGINE/EMPENNAGE COVER (ALON MODEL)	M10-012	\$750.00
CANOPY/ENGINE/EMPENNAGE/HORIZ. STAB. COVER (Alon model)	M10-013	\$1,250.00
ENGINE INLET PLUGS (set of 2)	M10-100	\$120.00
CARB INLET PLUG (below spinner)	M10-101	\$50.00
VACUUM PUMP INLET PLUG	M10-102	\$25.00
PITOT COVER	M10-PIT	\$25.00
ENGINE COVER	M10-110	\$275.00
INSULATED ENGINE COVER	M10-112	\$375.00
PROPELLOR/SPINNER COVER, 2 Blade	M10-115	\$150.00
INSULATED PROPELLOR/SPINNER COVER, 2 Blade	M10-120	\$200.00
WING COVERS, WINTER USE (set of 2)	M10-200	\$395.00
WING COVERS, ALL YEAR USE (set of 2)	M10-205	\$595.00
HORIZONTAL STABILIZER COVER, WINTER USE	M10-310	\$125.00
HORIZONTAL STABILIZER COVER, ALL YEAR USE	M10-315	\$195.00
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers), WINTER USE	M10-400	\$495.00
EMPENNAGE COVER (Tailboom, Vertical & Horiz Stabilizers), ALL YEAR USE	M10-405	\$535.00
TRAVEL COVER, Light Weight Travel Canopy Cover (ALON MODEL)	M10-800	\$300.00
TRAVEL COVER, Light Weight Travel Canopy/Engine Cover (ALON MODEL)	M10-810	\$480.00
TRAVEL COVER, Light Weight Travel Canopy/Engine/Empennage Cover (Alon Model)	M10-820	\$600.00
TRAVEL COVER, Light Weight Travel Canopy/Engine/Empennage/Horiz. Stab. Cover (Alon Model)	M10-825	\$1,000.00

**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.*



**BRUCE'S CUSTOM COVERS**  
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a div. of Canvas Works, Inc.

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 Fax: 408/738-2729  
 E-mail: bruce@aircraftcovers.com

# CANOPY COVER ORDERING INFORMATION, Page 1

INSTRUCTIONS: Print Form, Fill Out, Fax to 408/738-2729

NAME \_\_\_\_\_

SHIPPING ADDRESS \_\_\_\_\_

PHONE, FAX, EMAIL \_\_\_\_\_

PAYMENT BY: Visa  MasterCard  Amex  Discover  (check one)

All shipments are F.O.B. Sunnyvale, California, shipping by UPS (Ground or 2nd Day Service) unless requested otherwise.

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.

AIRCRAFT TYPE \_\_\_\_\_ YEAR \_\_\_\_\_ N \_\_\_\_\_

reg. number

AIRCRAFT COLORS (be specific) \_\_\_\_\_

DO YOU WANT YOUR N-NUMBER IMPRINTED ONTO COVER? (\$30 CHARGE) YES  NO  (check one)

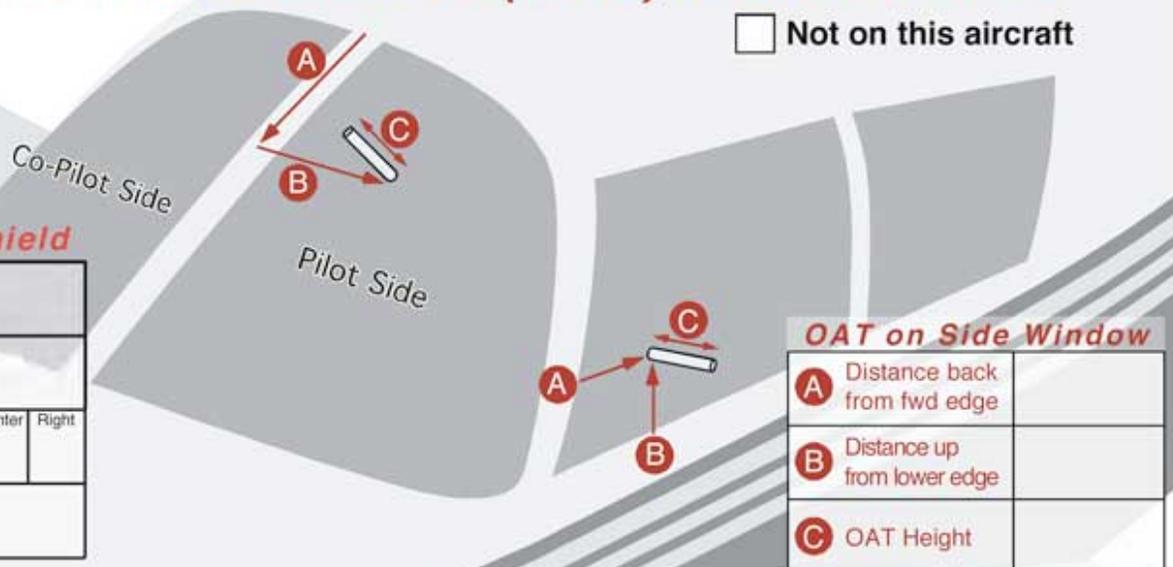
*Specify below ALL of the items you would like to order.*

*See Technical Sheet For Part Numbers (or fill in description)*

part number	quant	description	price

## TEMPERATURE PROBE (OAT) WORKSHEET

Not on this aircraft



### OAT on Windshield

<b>A</b> Distance from top Windshield			
<b>B</b> Offset from Centerline			
OAT Offset (check one)	Left	Center	Right
<b>C</b> OAT Height			

### OAT on Side Window

<b>A</b> Distance back from fwd edge	
<b>B</b> Distance up from lower edge	
<b>C</b> OAT Height	

rev. date: 2/15/07

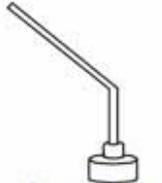
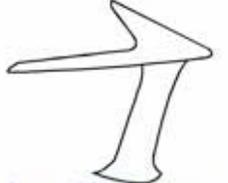
Additional Ordering Information: see Page 2

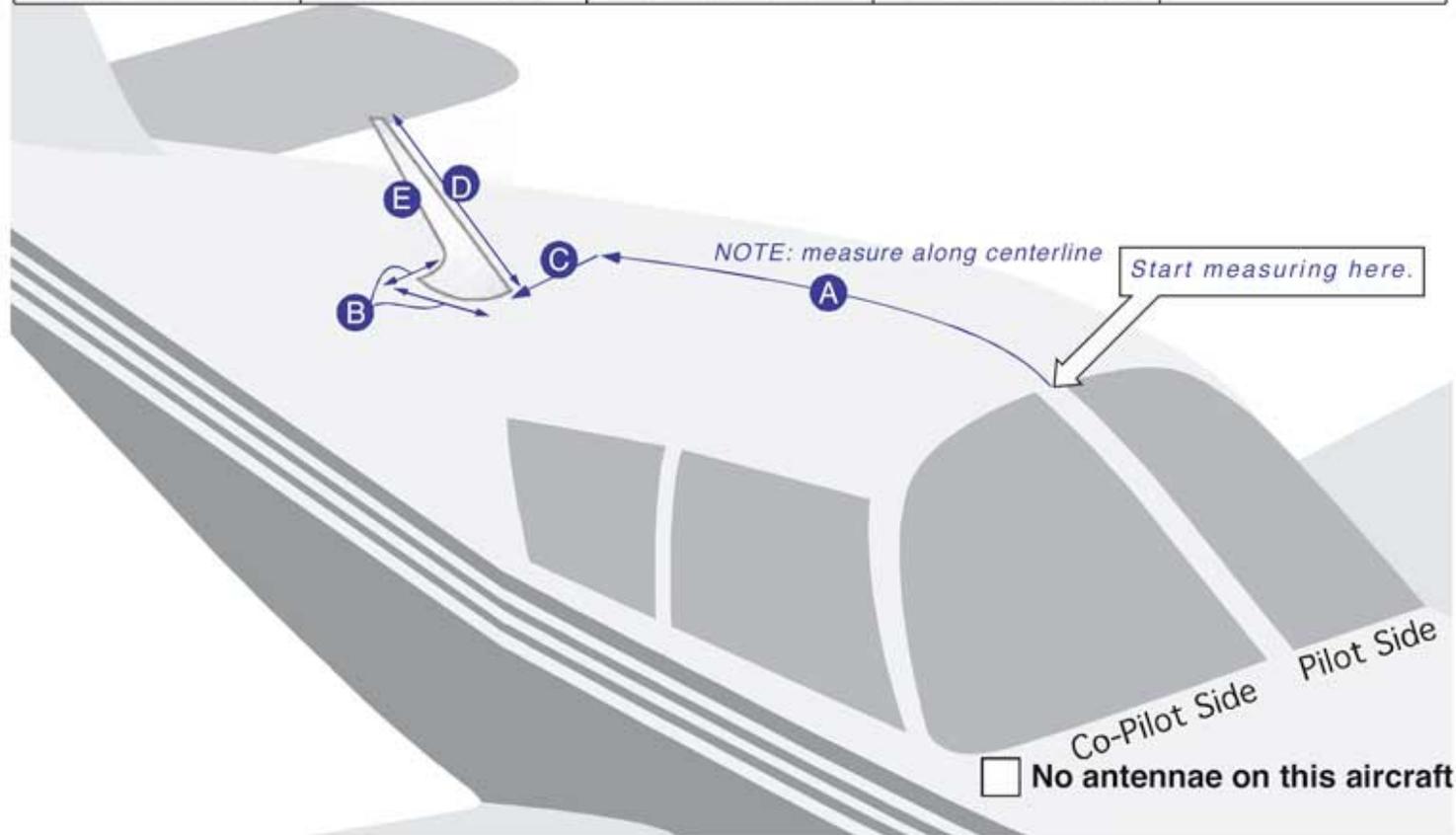
NAME: \_\_\_\_\_

# ANTENNA PLACEMENT WORKSHEET

INSTRUCTIONS: Print Form, Fill Out, Fax to 408/738-2729

## ANTENNA TYPES

1  Com Antenna type 1	2  Com Antenna type 2	3  Com Antenna type 3	4  Large "V" Antenna	5  Mooney "7" Antenna
6  Small "V" Antenna	7  Garmin Fin / TCAS	8  ADF Wire Antenna: A	9  ADF Wire Antenna: B	<b>NOTE</b> If none of these, sketch outline of antenna, then measure length & width of base.



No antennae on this aircraft

**A** Distance from top of Windshield    **B** Length/Width of Antenna base    **C** Offset from Centerline    Antenna Offset (circle one)    **D** Slope length of Antenna (types 1-3)    **E** Antenna Type (see types above)

Example	34 5/8" <i>(inches or metric)</i>	5 1/2" x 3 1/4"	9 1/2"	Antenna Offset (circle one)			18"	1
				Left <i>(pilot)</i>	Center	Right <i>(co-pilot)</i>		
Antenna #1				Left	Center	Right		
Antenna #2				Left	Center	Right		
Antenna #3				Left	Center	Right		
Antenna #4				Left	Center	Right		

rev. date: 2/15/07

# Measuring for a Propellor Cover

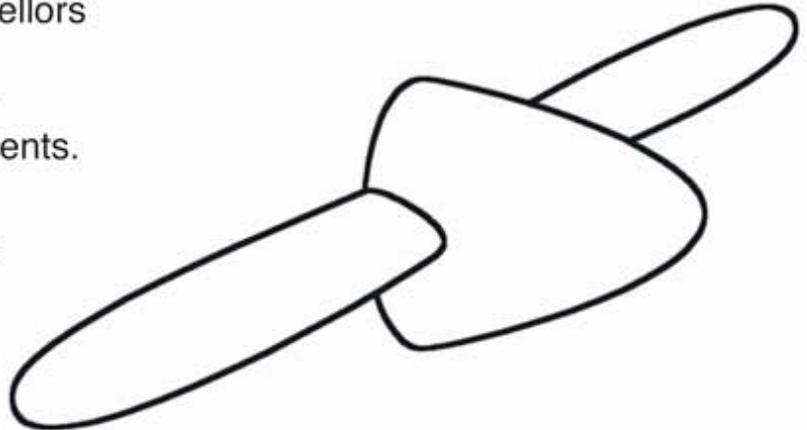
**INSTRUCTIONS: Print Form, Fill Out, Fax to 408/738-2729**

Spinner and blade dimensions on propellers vary, even among similar models. Producing a well-made propellor cover depends upon the following measurements.

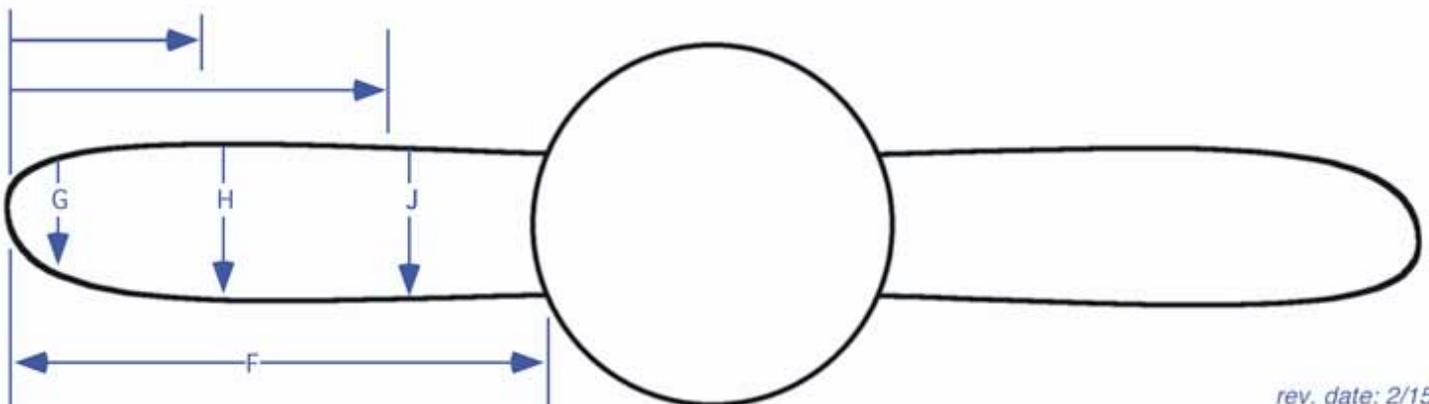
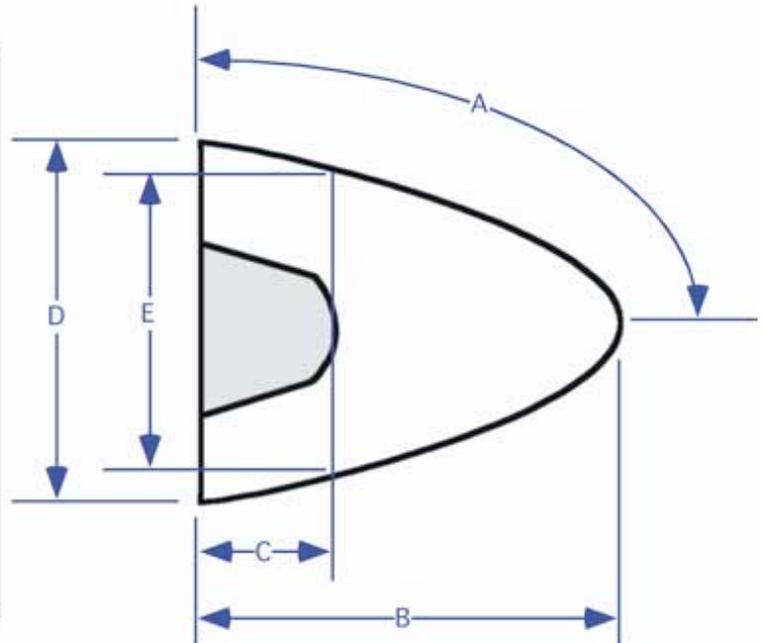
If you have any questions or problems, please call.

**Please Check One:**

- 2-Blade**
- 3-Blade**
- 4-Blade**



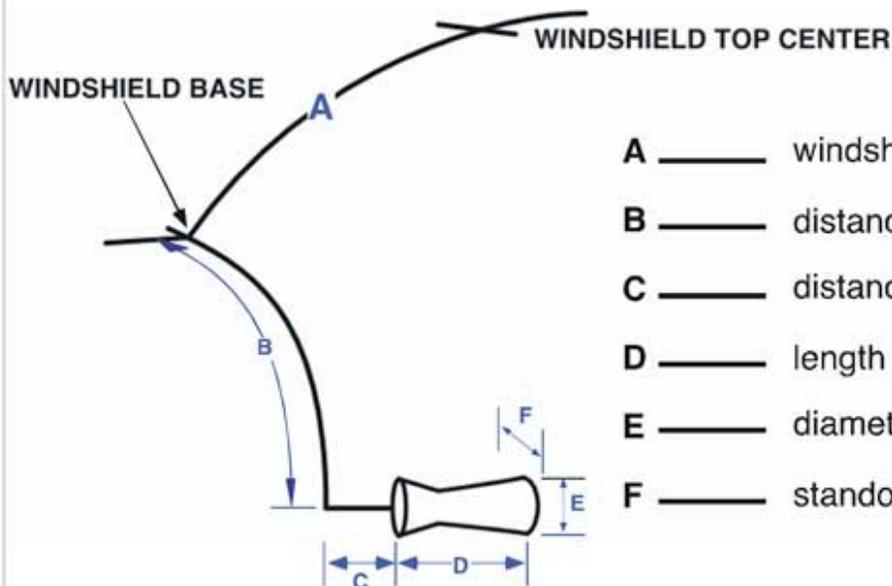
- |   |       |                                       |
|---|-------|---------------------------------------|
| A | _____ | (measure along surface of cone)       |
| B | _____ | (measure "straight line" base to tip) |
| C | _____ | (base to top of blade root opening)   |
| D | _____ | (provide diameter 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)       |



# VENTURI TUBE PLACEMENT WORKSHEET

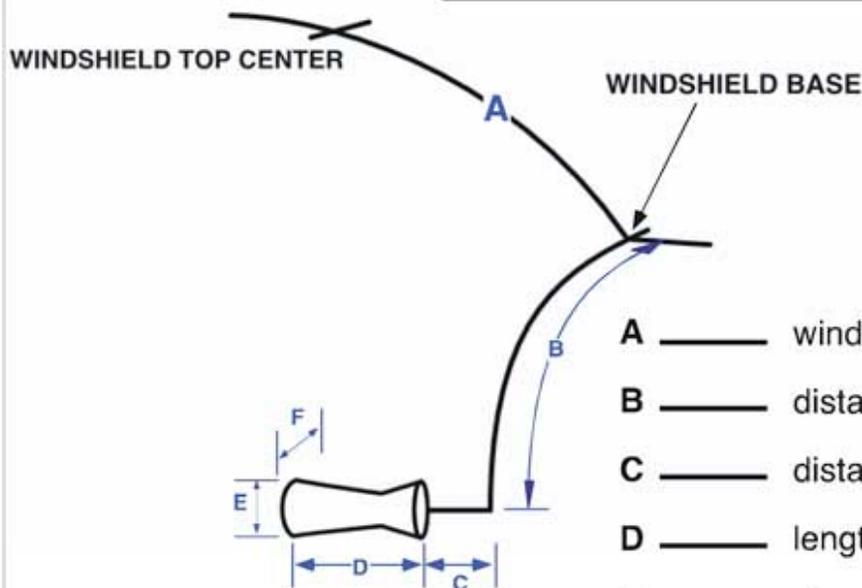
INSTRUCTIONS: Print Form, Fill Out, Fax to 408/738-2729

## LEFT SIDE VIEW



- A ——— windshield top center to windshield bottom
- B ——— distance parrallel to firewall to Venturi center
- C ——— distance back to front of Venturi
- D ——— length of Venturi
- E ——— diameter of Venturi
- F ——— standoff of Venturi

## RIGHT SIDE VIEW



- A ——— windshield top center to windshield bottom
- B ——— distance parrallel to firewall to Venturi center
- C ——— distance back to front of Venturi
- D ——— length of Venturi
- E ——— diameter of Venturi
- F ——— standoff of Venturi

rev. date: 2/15/07