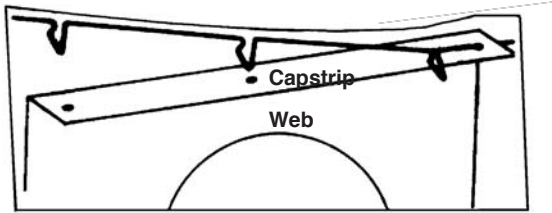


# NEEDLES – GROMMETS – PLATES

## MARTIN FABRIC CLIPS



Used to secure fabric to metal ribs in wings and control surfaces. Replaces rib-stitch cord or P-K screws. Provides a more secure and streamlined installation. Drastically reduces covering time. FAA-approved for aircraft listed. Easily adapts to homebuilts with metal ribs. Spacing between clips, 3". Spacing may be reduced to 1-1/2" on high-performance aircraft by using 2 wires, with clips inserted in alternate holes that are spaced 1-1/2" apart. Fabricated from stainless steel wire. Supplied in 25-ft. continuous coils.

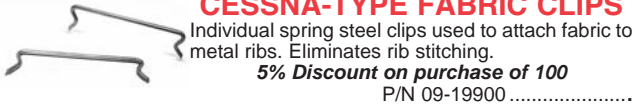
25-Ft. Coil..... P/N 09-19400 .....

### INSTALLATION KITS

Aircraft Model	STC No.	Part No.	Feet Req'd.
Aeronca-Champion	SA150S0	09-19500	225
Piper — All Models	SA126S0	09-19600	175-250
Stinson	SA615S0	09-19700	175
Taylorcraft	Original Equipment	09-19800	225

All install kits .. No clips are included. Order separately.  
\*If clips are used to secure fabric on controls, add 50 ft.

## CESSNA-TYPE FABRIC CLIPS



Individual spring steel clips used to attach fabric to metal ribs. Eliminates rib stitching.

5% Discount on purchase of 100  
P/N 09-19900 .....

## TAC RAGS



Tac Rags pick up dust like a magnet. Use Tac Rags in final cleaning or dusting of surface before applying enamel, lacquer or synthetic paints. Wipe surface gently to remove all dust, lint and fine sand particles from metal, wood or plastic surfaces. Tac Rags are anti-static, epoxy compatible, and remain soft and tacky indefinitely. Individually packaged. Size: 18" x 36".

P/N 09-20000..... ea...../Dzn

## FINE-LINE PAINT TAPE



This 3M™ tape is particularly suitable for pin stripping, multicolor and other custom painting applications. It is a thin, conformable green polypropylene film tape with a special finish that resists paint runoff. The adhesive adheres instantly and offers good holding power, resists lifting and curling.

Stretchable and easy to handle. Provides an extremely fine color-line separation for decorative painting of aircraft. Scotch No. 218.

- 1/8" x 60 Yds. .... P/N 09-20200 .....
- 1/4" x 60 Yds. .... P/N 09-20300 .....
- 3/8" x 60 Yds. .... P/N 09-20350 .....
- 1/2" x 60 Yds. .... P/N 09-20400 .....
- 3/4" x 60 Yds. .... P/N 09-20500 .....

Less 10% on 6 Rolls (Assorted) • Less 15% on 12 Rolls (Assorted)

## WOOD BRUSHES



Natural, undyed bristle with smooth, unpainted wood or polyethylene handles. Unaffected by paint, dopes, thinners or solvents.

Brush Width	Part Number	Price Each	Brush Width	Part Number	Price Each
1/2"	09-21100	.	2-1/2"	09-38825	.
1"	09-21200	.	3"	09-38803	.
2"	09-21300	.	4"	09-38804	.

Discount: Less 10% on 50, 15% on 100 (per size)

## ACID OR GLUE BRUSHES



Horse hair with metal handle.

- #1- 3/8" Wide..... P/N 09-21400 ..... ea.....\$3.65/dz.
- #2- 1/2" Wide..... P/N 09-21500 ..... ea.....\$3.65/dz.

## DOLLAR PATCHES



Grade B fabric patches for quick repairs on Grade B & Dacron covering. Smooth edge, 2.5" dia. Also available in Dacron which are more durable & less noticeable on aircraft exterior. Less 10% For 12 or More.

- Grade A cotton patches..... P/N 09-17700...../ea
- Dacron Dollar Patches ..... P/N 09-17705...../ea

## RIB LACING & SEWING NEEDLES



- 3" ..... Curved ..... Needle 3C..... P/N 09-18705...../ea
- 6" ..... Curved ..... Needle 6C..... P/N 09-18710...../ea
- 12" ..... Curved Tip .... Needle 12C..... P/N 09-18720...../ea
- 12" ..... Straight ..... Needle 12..... P/N 09-18725...../ea
- 18" ..... Curved Tip .... Needle 18C..... P/N 09-18730...../ea

Needle Assortment includes 1 each of the following: 3" curved, 6" curved, 12" curved, 12" straight, 18" straight.  
P/N 09-18735.....

## RIB STITCH NEEDLES



Made from the highest quality steel. Heat treated, nickel plated.

- 2-1/4" ..... Curved ..... 18 Gauge ..... P/N 09-18300 ...../ea
- 4" ..... Straight ..... 15 Gauge ..... P/N 09-18400 ...../ea
- 10" ..... Straight ..... 13 Gauge ..... P/N 09-18500 ...../ea
- 14" ..... Straight ..... 13 Gauge ..... P/N 09-18600 ...../ea
- 18" ..... Straight ..... 12 Gauge ..... P/N 09-18700 ...../ea

## "T" HEAD PINS



Used to hold fabric in place temporarily in covering operation.

Plated steel, 1-1/2" L. 100 Pins..... P/N 09-18850.....

## SCREWS



Used on some aircraft models to attach fabric to metal wing ribs and empennage ribs instead of rib lacing. Truss-head, type "A" self-tapping sheet metal screws. Size #4 x 1/4".

- Stainless Steel, Phillips Head ..... P/N T4X4...../ea
- Stainless Steel Type A, Phillips ..... P/N 4RX1/2SS...../ea
- Stainless Steel Type A, Phillips ..... P/N T4X6...../ea

## AD-41H CLOSED-END BLIND POP RIVET

1/8" diameter. Used to seal tubing vent holes.



P/N 04-01496 ...../ea

## BLIND RIVETS



Use these 1/8" dia. "Pop" rivets to attach fabric to the ribs on Champion/Bellanca aircraft. 100 Rivets.

P/N 09-18900 .....

## WASHERS



Aluminum washers may be use in place of original plastic washers under screws and pop rivets to attach fabric to metal wing or empennage ribs.

Plastic, 1/8" I.D. x 1/2" OD

P/N 09-19000 .....

Aluminum, 0.128" ID x 1/2" OD x 0.016

P/N 09-19100 .....

## DRAIN GROMMETS

Manufactured from virgin cellulose acetate butyrate resin.

Grommet Type	Part No.	O.D.	I.D.	Price each	Grommet Type	Part No.	O.D.	I.D.	Price each
Flat	AN231-1	1-1/4"	3/8"	.	Seaplane*	AN231-4	1-1/8"	—	.
Flat	AN231-2	3/4"	5/16"	.	Aluminum	09-19110	3/4"	1/4"	--

\*Depressed center — LESS 15% ON QTY. OF 100 (per Part No.)

## INSPECTION RINGS



Plastic rings, 4-5/8" O.D. x 3-1/2" I.D. x .050" thick, molded from virgin cellulose acetate butyrate resin. To be cemented to fabric as inspection plate retainer. 20% Discount on 100 or more.

P/N 09-19200..... ea

## INSPECTION RING PATCHES

Glued over inspection rings to prevent accidental removal.

P/N 09-18750..... ea

## INSPECTION PLATES



**DOMED** - Concave aluminum snap-type plate has single clip riveted across full diameter. Snaps to the ring at 2 contact points. Plate is 4.75" dia.

P/N 09-19300 ...../100

**RECESSED** - Recessed center and flanged-edge design will not creep off center due to vibration in propwash areas. 4-3/4" dia. x .020 aluminum. Will not twist or vibrate. P/N 09-18740..... ea

## CLEAR AIRCRAFT INSPECTION PLATE COVER



This is a clear window, aircraft inspection cover that is a cover replacement for a 3.5" inspection ring.

The plate is made from Lexan plastic, can be used with an inspection hole size of 3.38 minimum up to a 3.56 maximum, and should not be installed on aircraft traveling at speeds in excess of 250 knots. It can be cleaned with standard aircraft windshield cleaners. P/N 09-02114.....