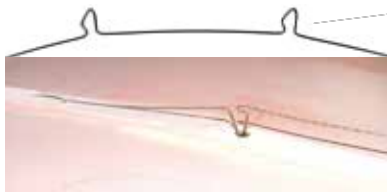


# NEEDLES – GROMMETS – PLATES

## 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.

**NOTE: FAA Approved for some aircraft.**  
Please see our website for complete approval list.  
25-Ft. Coil.....P/N 09-19400

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

### INSTALLATION KITS

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

### 3M™ FINE-LINE PAINT TAPE

This 3M™ tape is particularly suitable for pin striping, 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  
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 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.  
#2- 1/2" Wide .....P/N 09-21500 ea.

### 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.  
Dacron Dollar Patches...P/N 09-17705/ea.  
Ceconite C101 .....P/N 09-00162/ea.  
Ceconite C102 .....P/N 09-00163/ea.  
PF P-103 Med.....P/N 09-18750/ea.  
P99 Heavy Duty.....P/N 09-00164/ea.

## RIB LACING & SEWING NEEDLES



Description	Size	Part Number	Price
3" Curved	Needle 3C	09-18705	---
6" Curved	Needle 6C	09-18710	---
12" Curved Tip	Needle 12C	09-18720	---
12" Straight	Needle 12	09-18725	---
18" Curved Tip	Needle 18C	09-18730	---

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.

Description	Gauge Size	Part Number	Price
2-1/4" Curved	18	09-18300	---
4" Straight	15	09-18400	---
10" Straight	13	09-18500	---
14" Straight	13	09-18600	---
18" Straight	12	09-18700	---



### "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

Clear 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 ea./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.

### PIPER INSPECTION ACCESS HOLE KIT

Piper inspection access hole kit 765-106 comes with hardware, 2 plates, and 2 backup ring assemblies.  
P/N 09-05779

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