NEEDLES – GROMMETS – PLATES

**MARTIN FABRIC CLIPS**

- Used to secure fabric to metal ribs in wings and control surfaces. Replaces rib-stitch cord or K-screws. Provides a more secure and streamlined installation. Drastically reduces covering time. FAA-approved for aircraft listed. Easily adapts to homebuilt 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.

**RIB LACING & SEWING NEEDLES**

- 3" Curved Needle 3C ..... P/N 09-18705 ..... $1.50/ea
- 6" Curved Needle 6C ..... P/N 09-18710 ..... $2.30/ea
- 12" Curved Tip Needle 12C ..... P/N 09-18720 ..... $21.40/ea
- 12" Straight Needle 12S ..... P/N 09-18725 ..... $4.50/ea
- 18" Curved Tip Needle 18C ..... P/N 09-18730 ..... $23.50/ea

**Needle Assortment** includes 1 each of the following: 3" curved, 6" curved, 12" curved, 12" straight, 18" straight.

**P/N 09-18735** ..... $35.75

**RIB STITCH NEEDLES**

- Made from the highest quality steel. Heat treated, nickel plated.
- 2-1/4" Curved 18 Gauge ..... P/N 09-18630 ..... $1.38/ea
- 4" Straight 15 Gauge ..... P/N 09-18640 ..... $1.55/ea
- 10" Straight 13 Gauge ..... P/N 09-18650 ..... $3.50/ea
- 14" Straight 13 Gauge ..... P/N 09-18660 ..... $5.50/ea
- 18" Straight 12 Gauge ..... P/N 09-18670 ..... $6.50/ea

**T" HEAD PINS**

- Used to hold fabric in place temporarily in covering operation.

**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 ..... $22.35

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

- 1/8" diameter. Used to seal lifting tube vent holes.

**DRAIN GROMMETS**

Manufactured from virgin cellulose acetate butyrate resin.

**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 09-189200 ..... $0.67 ea.

**INSPECTION RING PATCHES**

Glued over inspection rings to prevent accidental removal. P/N 09-187500 ..... $1.50 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 ..... $2.25 ea. **$191.25/100**

**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 09-187400 ..... $5.95 ea.