

# TINNERMAN FASTENERS

## TINNERMAN NUTS FOR SHEET METAL SCREWS



"B"-type Sheet Metal Screw

These speed nuts are self-locking steel fasteners. Locking action is derived from the force exerted by the two arched prongs against the root of the screw thread and by the spring tension of the prongs and base. The combined forces of the thread lock and spring tension provide a vibration proof fastening. Speed nuts retain their spring tension and may be used repeatedly without losing their self-locking effectiveness. Suitable for numerous non-structural applications.

**Finish:** Phosphate-coated with three coats of olive drab paint.

**Important:** Speed nuts for aircraft are designed to fit standard AN530-AN531 type B sheet metal screws only. Do not use pointed type A sheet metal screws with aircraft Speed nuts. There is a difference in root diameter and thread pitch. Screw lengths: B type sheet metal screws have a blunt taper at the end. To be certain the fastener prongs grip on the full root diameter, the screw should protrude two to three threads beyond the prongs. See the illustration.

## FLAT TYPE (NAS 446)

Used to replace threaded nuts, lock washers, and spanner washers; weigh less than other types of self-locking aircraft fasteners. Can be applied faster, easier, and are vibration resistant. Provide maximum holding power at minimum cost per fastener. Turned-up ends prevent scoring of surfaces. Use with type B tapping screws.



| Part No.     | Screw Size | Price ea. |
|--------------|------------|-----------|
| A1776-4Z-1D  | #4         | \$0.21    |
| A1777-6Z-1D  | #6         | \$0.29    |
| A1778-8Z-1D  | #8         | \$0.19    |
| A1779-10Z-1D | #10        | \$0.22    |

## ANCHOR NUTS (NAS 444)

Riveted or welded in position. Attach access plates, doors or any part that must be fastened securely, yet easily removed with fasteners retained in a blind location. Install with AN426AD-3 rivets.



| Part No.    | Screw Size | Price/Ea. |
|-------------|------------|-----------|
| A6195-6Z-1D | #6         | \$0.39    |
| A6195-8Z-1D | #8         | \$0.37    |

## LHA 4972 FLOATING CLIPNUT CADMIUM-PLATED STEEL



| Part No.     | Thread | Price Each |
|--------------|--------|------------|
| 4972-5-62    | 6-32   | \$2.08     |
| 4972-6-82    | 8-32   | \$1.59     |
| LHA4972-1032 | 10-32  | \$2.25     |

## FLOATING CLIP NUT 4972-1032

Reach: .500"  
Thread: 10-32  
Edge Distance: .375  
Material Thickness: .020" - .090  
P/N 04-01489..... \$2.25



## INSTRUMENT MOUNTING NUTS



Cage type. Permit mounting of aircraft instruments from the front of the panel. No charge in panel or instrument design required. Non-magnetic (speed nut is brass; cage is phosphor bronze). Conform to MIL-N-3336. Cage is easily compressed with finger-pressure to allow insertion of legs into clearance holes. When fully inserted and pressure is released, legs spring apart; retain SPEED NUT in screw-receiving position. Turned-down corners hold firm against force of inserting screw and screw-tightening torque. All instrument mounting nuts listed below take a 6-32 machine screw.

| Tinnerman Part No. | Our Part No. | NAS Part No. | Instrument Thickness | Price Ea. |
|--------------------|--------------|--------------|----------------------|-----------|
| A8938-632-493      | MS33737-9C   | 487-13       | .062                 | \$1.98    |
| A8939-632-493      | MS33737-10C  | 487-14       | .091                 | \$1.78    |
| A6939-632-493      | MS33737-11C  | 487-15       | .125                 | \$1.64    |
| A8940-632-493      | MS33737-12C  | 487-16       | .187                 | \$1.73    |
| A8941-632-493      | MS33737-13C  | 487-17       | .250                 | \$1.75    |
| A8942-632-493      | MS33737-14C  | 487-18       | .313                 | \$1.75    |
| A8943-632-493      | MS33737-15C  | 487-20       | .375                 | \$1.79    |
| A8944-632-493      | MS33737-16C  | 487-21       | over .375            | \$1.80    |

## MONADNOCK CLIP NUTS

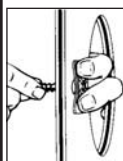
High strength Forged hex nuts suitable for structural and non-structural applications in metal, plastic, and composite materials.



| Size  | Distance  | Edge Tkns | Part Number | Price Ea. |
|-------|-----------|-----------|-------------|-----------|
| 6-32  | .180-.120 | .030-.051 | 04-00151    | \$2.25    |
| 8-32  | .310-.500 | .020-.090 | 04-00152    | \$1.10    |
| 10-32 | .350-.500 | .020-.090 | 04-00153    | \$1.38    |

## HOW TO APPLY SPEED NUT FASTENERS

### FLAT TYPE

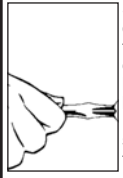


Fastener is positioned over screw clearance hole with screw-engaging prongs pointing up or outward. Screw is started into nut by hand from the underside.

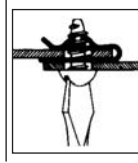
### "U" TYPE



Push into position with thumb until extrusion on lower leg snaps into screw hole. The fastener "floats" in screw-receiving position to correct for normal misalignment in panel mounting holes.



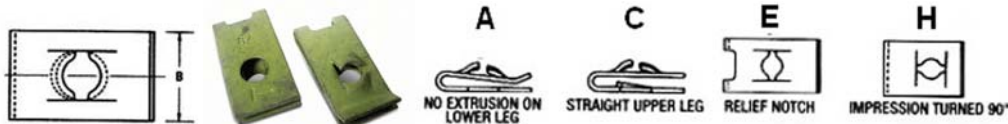
Screw can be power-driven into locked position (when base arch of fastener is flat) or a hand screw driver can be used. No wrench is required, finger pressure will prevent it from turning.



Place second panel in position & drive screw. Access to opposite side is unnecessary. Flush mounting can be made by embossing either panel.

## "U" TYPE (NAS 395) CLIP NUTS

Snaps over edge of panels or into center hole locations. Holds itself in place for blind assembly. "Floats" free for easy hole alignment.



| Part Number  | TypeB Scrw Size | Design Variation | P-panel Thickness Range | A Length | B Width | C-max. ctr. hole to edge | G-panel hole dia. | T-mat'l. Thkness | Price  |
|--------------|-----------------|------------------|-------------------------|----------|---------|--------------------------|-------------------|------------------|--------|
| A1784-6Z-1D  | #6              | E                | .025-.051               | 0.61     | 0.44    | 0.281                    | 0.250             | 0.025            | \$0.33 |
| A1785-6Z-1D  | #6              | E                | .025-.064               | 0.84     | 0.44    | 0.500                    | 0.281             | 0.025            | \$0.36 |
| A1789-8Z-1D  | #8              | E                | .025-.051               | 0.61     | 0.44    | 0.281                    | 0.250             | 0.028            | \$0.29 |
| A1787-8Z-1D  | #8              | E                | .025-.064               | 0.84     | 0.44    | 0.500                    | 0.281             | 0.028            | \$0.31 |
| A1788-8Z-1D  | #8              | A E              | .025-.064               | 0.84     | 0.44    | 0.500                    | 0.170             | 0.028            | \$0.26 |
| A1348-8Z-1D  | #8              | A E              | .025-.064               | 0.73     | 0.50    | 0.343                    | 0.170             | 0.028            | \$0.47 |
| A1786-8Z-1D  | #8              | C E H            | .040-.051               | 0.53     | 0.50    | 0.218                    | 0.250             | 0.028            | \$0.25 |
| A178710Z-1D  | #10             | E                | .025-.064               | 0.84     | 0.44    | 0.500                    | 0.281             | 0.031            | \$0.35 |
| A1758-10Z-1D | #10             | E                | .081-.094               | 0.62     | 0.44    | 0.281                    | 0.281             | 0.031            | \$0.30 |

