

## Tinnerman Palnut Fasteners

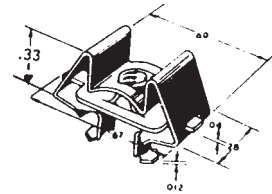
**Material.** Special aircraft spring steel is generally used for all parts unless otherwise specified. Where speed nuts are available in stainless steel the part number will include SS (e.g., A6199SS-8Z-3). Speed nuts with welding nibs are made of stainless steel only.

**Finish.** Tinnerman items are offered in the following finishes: (final dash number of the part number denotes the finish type)

- 1 = Phosphate and three coats olive drab phenolic paint
- 27 = Soluble oil dipped
- 495 = Cadmium electro-plate .0002 minimum to QQ-P-416A, Class 3, Type 1

**Note:** Speed nuts for aircraft are designed to fit standard AN530 type "B" or "Z" sheet metal screws only. Information on speed nuts for commercial use with standard machine screws and "A" type screws will be furnished upon request. Important: DO NOT USE POINTED TYPE "A" SHEET METAL SCREWS WITH AIRCRAFT SPEED NUTS. There is a difference in root diameter and thread pitch!

**Tinnerman Palnut fasteners for instrument mounting.** Cage type. Permit mounting of aircraft instruments from the front of the panel. No change in panel or instrument design required. Non-magnetic (speed nut is brass; cage is phosphor bronze). Gage is easily compressed with finger pressure to allow inversion 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.



| Part No.    | Panel Thickness | Tinnerman Palnut Part No. | NAS Part No. |
|-------------|-----------------|---------------------------|--------------|
| MS33737-9C  | .062"           | A8938-632-493             | NAS487-13    |
| MS33737-10C | .091"           | A8939-632-493             | NAS487-14    |
| MS33737-11C | .125"           | A6939-632-493             | NAS487-15    |
| MS33737-12C | .187"           | A8940-632-493             | NAS487-16    |
| MS33737-13C | .250"           | A8941-632-493             | NAS487-17    |
| MS33737-14C | .313"           | A8942-632-493             | NAS487-18    |
| MS33737-15C | .375"           | A8943-632-493             | NAS487-20    |
| MS33737-16C | >.375"          | A8944-632-493             | NAS487-21    |

**Anchor type speed nuts.** To attach access plates, doors or any part that must be fastened securely, yet easily removed with fasteners retained in blind location. Riveted in screw-receiving, they make firm, vibration-proof attachments. Popular types shown in the table are all for 1/2" dia. rivets And all except A6191 are for use with sheets dimpled for 100° flat head rivets.



| Part No.     | Screw Size (B or Z) | Panel Thickness |
|--------------|---------------------|-----------------|
| A06191-6Z-1D | 6                   | .025"           |
| A06191-8Z-1  | 8                   | .028"           |
| A06195-8Z-1  | 8                   | .028"           |

**Flat type Tinnerman Palnut fasteners.** For use with Type B tapping screws. 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.

| Part No.     | Screw Size | Length (A) | Width (B) |
|--------------|------------|------------|-----------|
| A1779-10Z-1D | 10B        | .88        | .50       |

