



INSTRUCTION – FLUSH MOUNT PLUG w/CAP TN02533

RECORD OF REVISIONS

When updated, this document is changed in its entirety

REV	DATE	DESCRIPTION	BY	APPROVAL
B	FEB-04-2016	Add outlets and terminal procedure reference	DNE	Doug J Evink <small>Digitally signed by Doug J Evink DN: cn=Doug J Evink, o=Tanis Aircraft Products, Inc. ou=Engineering, email=Doug.Evink@tanis.com c=US Date: 2016.02.04 11:42:03 -0500</small>
A	APR-17-2014	Change instruction title	GDO	DNE
-	MAR-03-2011	Previous date controlled Release	DNE	RCK

PURPOSE

This purpose of this instruction is too provided guidance for the installation of 115-volt and 230-volt plugs (inlet) P/N's: TP02533-T-115 and TP02822-T-230, and plug receptacles (outlet) P/N's: TP02989-115 and TP02988-230.

DESCRIPTION

Flanged plug inlets and outlets are configured in nylon housing with straight blade contacts, sealing cap, rear protective cover, Delrin washer, and 1.50 inch locknut (Figures 1 and 2). Terminals color coded.

Note: Plug inlet sealing caps (TU03018) configured with internal snap ring (Figures 1 and 3).

REQUIREMENTS

Standard aviation tools, hardware, and consumables, are required and not supplied.

- Before installing in any structural location verify applicability and approval method.
- Determine that the added mass and use of power cord will not cause flexing and cracking of the skin (AC 43:13-2B Chapter 1).
- Installation in cowl panel may be considered a Major Alteration (14 CFR 43 - Appendix A to Part 43 - (a) (viii)).
- For questions regarding installation contact Tanis Aircraft Products, airframe manufacturer, FAA, or approved representative.

INSTALLATION

Acceptable to mount without tethered cap and/or flange mount, reference Figures 1, 2, and 3.

1. Cut hole based on mounting option. Front mount cut 1.875 inch / 4.77 cm hole. Rear mount cut 1.60 inch / 4.10 cm hole, mounting hardware to be supplied by installer (supplied mounting hardware and front sealing cap not used).
2. Install plug weep hole down, position cap, and assemble (Figures 1 and 2). Torque locknut to adequately secure plug without distorting washer - approx 35-45 lbf in / 4.0-5.0 Nm.
3. Slide rear protective cover over cable.
4. Strip cable jacket back from insulated inner conductors 1.25 to 1.50 in / 3.8 to 4.5 cm and strip insulation from inner conductor wires 0.563 in / 1.43 cm. **Do not tin conductors.**
5. Insert each wire into appropriate wire terminal (color coded). Insure there is no insulation in terminal and torque terminal screws to 12 inch-pounds / 1.35 Nm. **Do not over tighten.**
6. Slide rear protective cover in place over the plug body and seal rear cover at cable transition with TU02788 sealant or equivalent (Figure 2).
7. Secure the cable adjacent to the plug.

PROPRIETARY DATA

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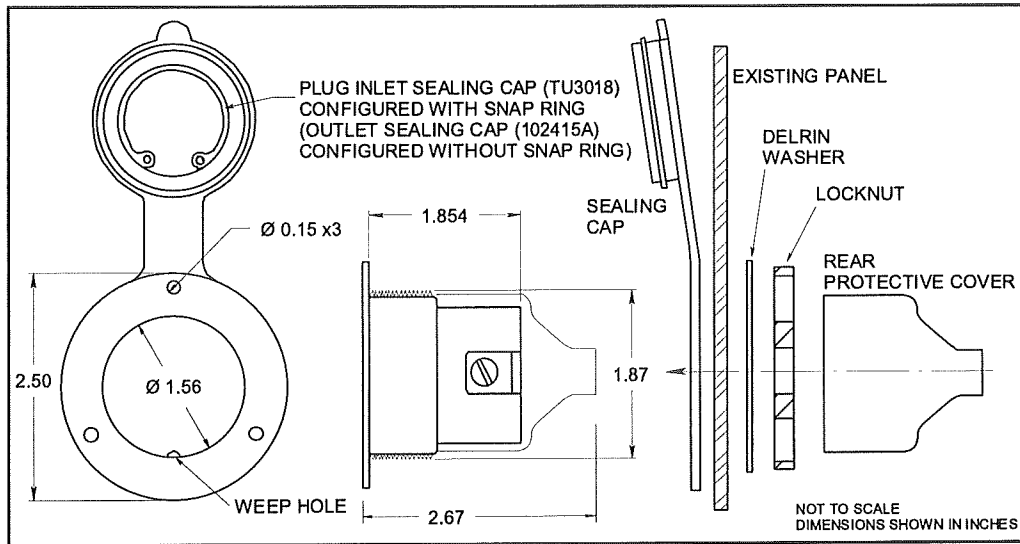


Figure 1 – Inlet and outlet plug dimension requirements and layout.

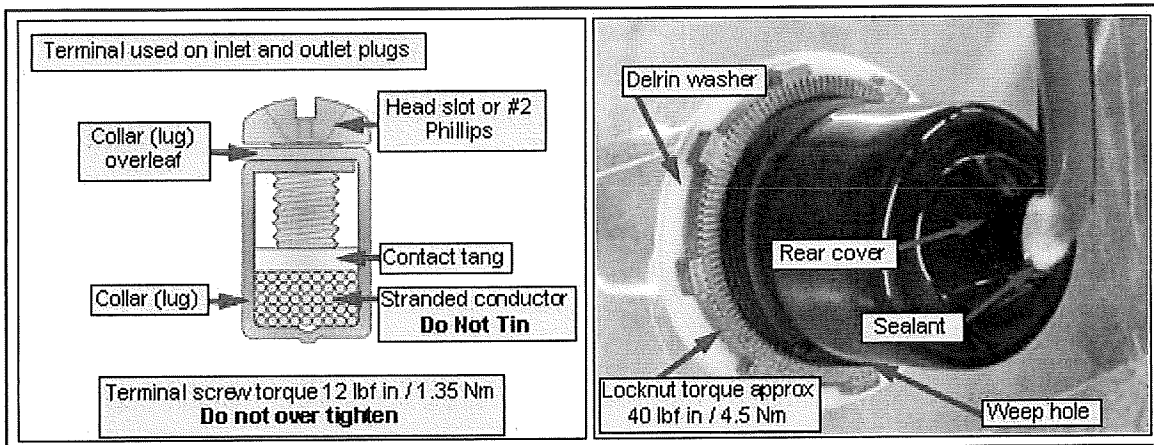


Figure 2 – Terminal lug detail and rear view of installation. Mount weep hole down, Delrin washer between locknut and panel, rear protective cover sealed.

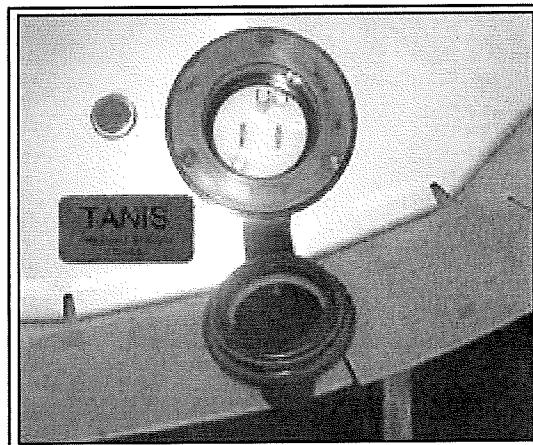


Figure 3 – Example of placarded 115-volt plug (inlet) installed in engine baffle with indicator light (placard location varies by installation).

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