



TN02070
INSTRUCTION - FLUSH MOUNT PLUG
 (115 AND 230 VOLT)

Record of Revisions

When updated, this document is changed in its entirety

REV	DATE	DESCRIPTION	BY	APPROVAL
E	APR-11-2014	Update logo and 230 volt part number	GDO	
D	JUN-20-2013	Update graphics	GDO	DNE
C	DEC-03-2012	Change instruction title	DNE	DNE

General overview:

This instruction is for the installation of flush mount shore power plugs approved for use with Tanis Preheat Kits and products.

Plug descriptions:

115 volt, 15-amp flush mount plug:

TP02070-M-115 metal housing, straight blade, flanged inlet, 3-wire grounding plug (NEMA 5-15P).

TP02070-S-115 synthetic body, straight blade, flanged inlet, 3-wire grounding plug (NEMA 5-15P).

230 volt, 15-amp flush mount plug:

TP02839-S-230 synthetic body, straight blade, flanged inlet, 3-wire grounding plug (NEMA 6-15P).

Note: TP02829-230 circular receptacle is available for use as extension cord adapter.

Plug assemblies are supplied with mounting hardware, a high temperature insulating cap, and stainless steel circular clamp. This cap and clamp reduce the effects of vibration, insulates from heat, as well as protects the back of the plug and contacts from foreign debris.

Pre-Installation:

- Installation is to be completed by appropriately rated and certified technician or maintenance repair facility. Instructions are provided as guidance only. Final judgment regarding the proper installation and inspection details is the responsibility of the inspection authority releasing the aircraft for service.
- The installing authority should determine that the added mass and use of a ground/shore power cord will not cause flexing and cracking of the skin (AC 43:13-2B Chapter 1).
- Before penetrating composites, reference airframe manufacturer procedure for proper penetration and potting procedures, and AC 43.13-1B (Chapter 3).
- Installation of this part in a cowl is a major alteration (14 CFR 43 Appendix A sec. A43.1 (a) (viii)).
- If there are questions regarding the installation location, contact Tanis Aircraft Products, airframe manufacturer, FAA, or approved representative.
- FAA approval is required before installing this part in any structural location through the completion of Form 337 or other approved method.

Installation:

Reference Figures 1 thru 5.

1. Mount the flush mount plug using appropriate hardware (Figure 1).
Surface mount requires 1.75" hole, and rear mount requires 1.5" hole.
2. Insert the power cable(s) through the circular clamp and insulating cap (Figure 1).
3. Strip insulation from wiring and connect wires to the plug contacts (Figure 2).
4. Slide the insulating cap in place over the plug body, install circular clamp and torque in place (15-25 inch pounds).
 - a) Metal plug: Align the clamp over the seam where the metal meets the phenolic insulator (Figure 4).
 - b) Synthetic plug: Align the clamp over the flat portion of the plug body (Figure 5).
Note: It is acceptable to modification mounting flange on synthetic (Figure 3).
5. Secure the cable adjacent to the plug (Figures 4 and 5).
6. Seal the insulator cap and wire transition using silicone RTV or other appropriate compound.

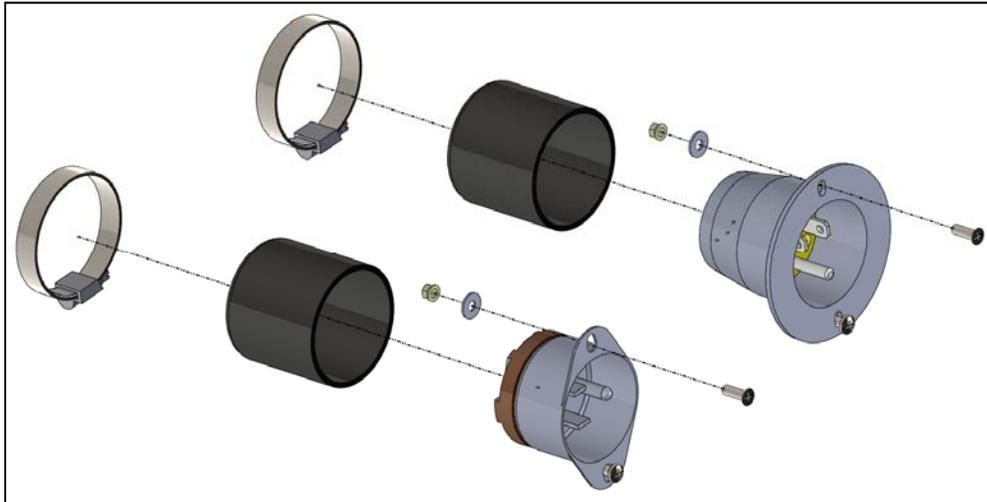


Figure 1. Installation order, use appropriate screw for mounting location.

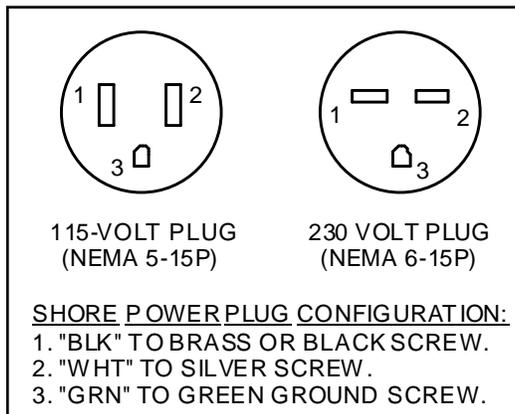


Figure 2. Wire pin out.

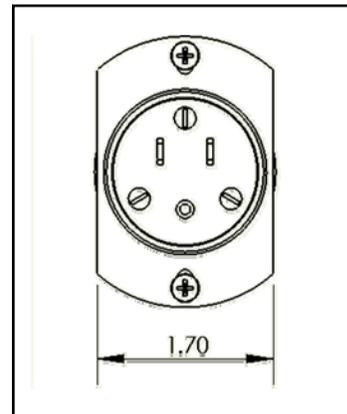


Figure 3. Synthetic plugs may be trimmed as shown.

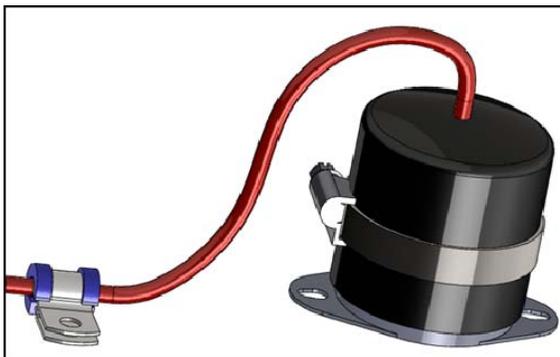


Figure 4. Metal plug, align clamp over seam of metal body and phenolic insulator.

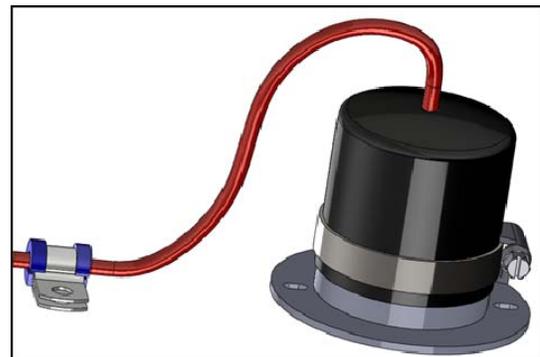


Figure 5. Synthetic plug, align clamp over lower flat area of Plug.

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