



INSTRUCTION – THREADED ELEMENT

Subject: Threaded Element series p/n: TTP2634-, TTP2842-,
TTP2899-, TTP2996-, TTP3020-, and TTP3038-.

Document No: TN02634

Revision: B

Date: MAR-17-2021

RECORD OF REVISIONS

When revised document changed in its entirety.

REV	DATE	DESCRIPTION	BY	CKD
B	MAR-17-2021	Add gasket, sealant, and Angle of Turn reference	DNE	GDO
A	JUL-17-2017	Initial release	DNE	GDO

Current revision approval: _____

1. PURPOSE

Installation guidance for Subject parts listed above and may supplement kit specific instruction where applicable.

2. REQUIREMENTS

Users of this instruction are to be familiar w/ Installation Guide TNG1000 and 14 CFR part 43.

- New annular type crush gasket or thread sealant required and is supplied or sourced separately. Refer to Figures 1 through 3 for sealing requirements.
- Access to applicable engine manufacturer's maintenance manual (OEM MM).
- Tools and consumables not supplied.

3. DESCRIPTION

Threaded resistance heat element w/ self-locking sealed connector. Manufactured to a specific watt density for application. Depending on element application element body is machined from C360 brass or 6061-T6 aluminum.

4. INSTALLATION

Locate threaded element replacing existing fitting. Refer to OEM MM for fluid removal and replacement requirements.

- Drain fluid and remove existing fitting from intended location of installation.
- Refer to Figures 1 through 3 for engine and element application and install accordingly.
- Connect element and secure lead approximately midway between element and connector. Cable-Tie Anchor p/n: TU02782 and Adhesive Mix Kit p/n: CB92 available separately for use as needed.
- Replace fluid and check for leaks, refer to OEM MM.

5. SERVICE

There are no authorized repair procedures, only replacement. Test with ohmmeter, refer to kit specific installation instructions and/or ICA: TCA1000.

PROPRIETARY DATA

Tanis Aircraft Products proprietary rights are included in the information disclosed herein. The recipient by accepting this document agrees that neither this document nor the information disclosed herein, nor any part thereof will be reproduced or transferred to other documents or used or disclosed to others for manufacturing or for any other purpose except as specifically authorized in writing by Tanis Aircraft Products - 952-224-4425.

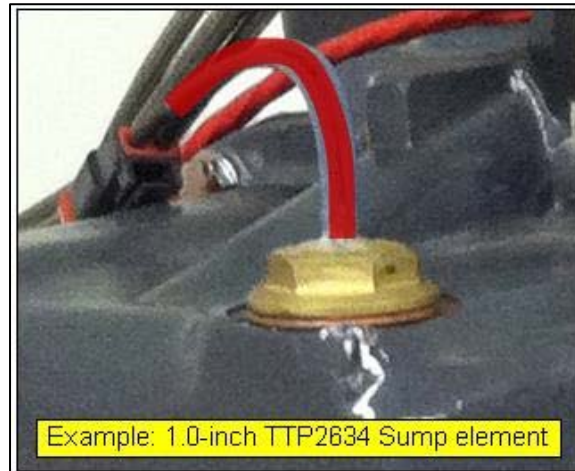


Figure 1. Commander and Lycoming: Sump Element series p/n: TTP2899- (3/4-16 UNF), TTP2634- (1.0-20 UNEF), TTP2842- (1.0-20 UNEF), and TTP3020- (1.5-18 UNEF).

When available install with reference to OEM MM for location of installation.

Recommended installation: Lightly lubricate threads. Locate new annular type crush gasket (3/4-in p/n: AN900-8 or MS35769-15, 1.00-in p/n: AN900-16 or MS35769-21, 1.5-in p/n: AN900-24 or MS35769-35) with unbroken surface against flange of element, so split surface contacts engine sump. Install element in sump finger tight until sealing surfaces contact and then tighten to Angle of Turn. Angle of Turn: Copper crush type, $135^{\circ} \pm 5^{\circ}$. Equivalent Aluminum crush type: $270^{\circ} \pm 5^{\circ}$, reference Lycoming Service Table Of Limits SSP-1776. Install safety cable/wire IAW standard practices per the latest revision of AC 43.13-1B Ch 7 or the latest revision of Lycoming Service Instruction No. SI-1566.



Figure 2. Austro and Technify: Crankcase Element series p/n: TTP2996- (M18-1.50).

Recommended installation: Lightly lubricate threads. Locate new annular type crush gasket p/n: AN900-11 or MS35769-13 w/ unbroken surface against flange of element, so split surface contacts engine sump. Install element in crankcase finger tight until sealing surfaces contact and then tighten to Angle of Turn. Angle of Turn: Copper crush type, $135^{\circ} \pm 5^{\circ}$. Equivalent Aluminum crush type: $270^{\circ} \pm 5^{\circ}$. Install safety cable/wire IAW standard practices per the latest revision of AC 43.13-1B Ch 7.

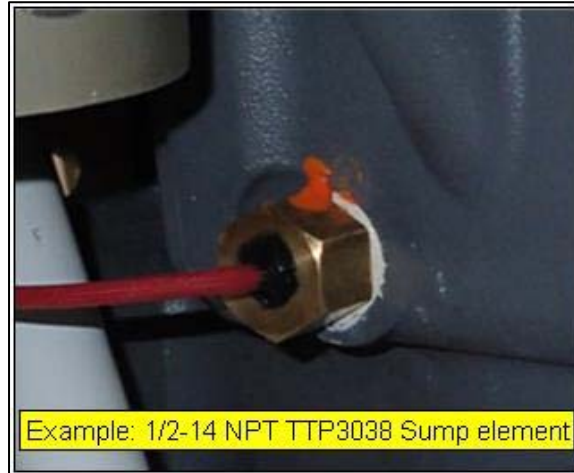


Figure 3. Continental, Lycoming, and others: Threaded Heat Element series p/n: TTP3038- (1/2-14 NPT).

When available install with reference to OEM MM for location of installation.

Recommended installation: Apply one to two drops of Loctite® 564™ or equivalent to element threads. Install safety cable/wire IAW standard practices per the latest revision of AC 43.13-1B Ch 7 or the latest revision of Lycoming Service Instruction No. SI-1566.

Lycoming Torque: 160 to 176-inch pounds, ref: Lyc. Service Table Of Limits – SSP-1776.

Continental Torque: 255 to 285-inch pounds, ref: TCM-SB-6-7.

******* NOTHING FOLLOWS *******