

TN02905 **REV B, FEB-06-2013**

INSTRUCTION – THREADED ELEMENT

Record of Revisions

When updated, this document is changed in its entirety

REV	DATE	DESCRIPTION	BY	APPROVAL
В	FEB-06-2013	Add torque max to spec to M6 element	DNE	
А	JAN-11-2013	Initial Release	DNE	DNE



Figure 1 (Generic image of threaded element with socket connector)

General:

The Tanis series of threaded heat elements are subcomponents of approved Tanis systems. They are intended for use in tension applications. Elements are configured by a part number that defines, connector, threading, voltage requirement, and wattage output.

Description:

- Element lead, 6 inches long, terminated with a sealed connector.
- Threaded component heater body configurations (lengths vary):

M6 -1.00 shaft, M11 hex head.

1/4 - 20UNC or 28UNF shaft, 1/2-inch hex head.

5/16-18UNC or 24UNF shaft,1/2-inch hex head.

Suggested Tools:

- Torque wrench (inch-pound) specific.
- M11 or 7/16 inch slotted socket.
- 1/2 inch slotted socket (Figure 2).



Figure 2 - Tanis tool TU02905-05 (1/4 drive 1/2 inch socket)

Installation:



Caution: Use engine manufacturer's torque requirements for location of installation.

Do not exceed maximum torque allowances:

- 6mm elements, 115-inch pounds (13-Nm).
- 1/4-inch elements, 110-inch pounds.
- 5/16-inch elements, 280-inch pounds.

Use washers, and/or spacers as required.

Figures 3 through 8 depict generic examples of threaded elements installed. Follow specific instruction per application and reference notes on page 2.

- 1. Access installation site, inspect threads, and correct any discrepancies before proceeding.
- 2. Install element and torque to manufactures specification.
- 3. Once installed, properly secure element lead and connector.



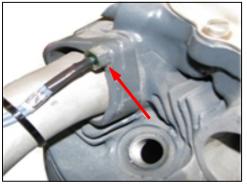


Figure 3



Figure 4

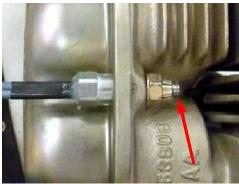


Figure 5

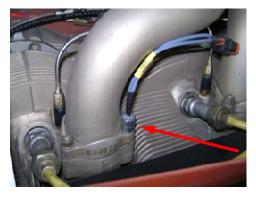


Figure 6

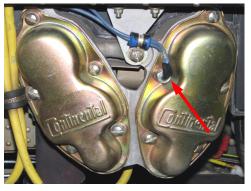


Figure 7

Figure 8

Notes:

- a) Check installation site threads for damage or wear.
- b) Repair worn threads per manufacturer's instruction, or use Heli-coil insert.
- c) As required, use aluminum spacer(s) and/or metal washer(s) to prevent over extending (no more than 2 to 3 threads), or bottoming out of element (Figures 3 and 6).
- d) A minimum thread engagement of six full threads is required, *maximum thread* engagement is optimal.
- e) When properly installed the element body mating surfaces will be in full contact with spacer/washer(s), and component.
- f) Do not over flex the element lead; this may damage the wiring where it enters the element.
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