



**TN02924**  
**REV A, JAN-11-2013**  
**INSTRUCTION – THREADED ELEMENT**

**Record of Revisions**

*When updated, this document is changed in its entirety*

REV	DATE	DESCRIPTION	BY	APPROVAL
B	JAN-11-2013	Add maximum torque allowance	DNE	
A	NOV-06-2012	Initial Release	DNE	DNE



Figure 1 (TTS2924-115/50 shown)

**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.
- Component heater body, 5/16-18UNC x 1.312, with 1/2-inch hex head.

**Suggested Tools:**

- Torque wrench (inch-pound).
- 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 allowance of 280-inch pounds.
  - Do not bottom out element, or have more than 2-3 threads exposed (Figure 6).
  - 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.

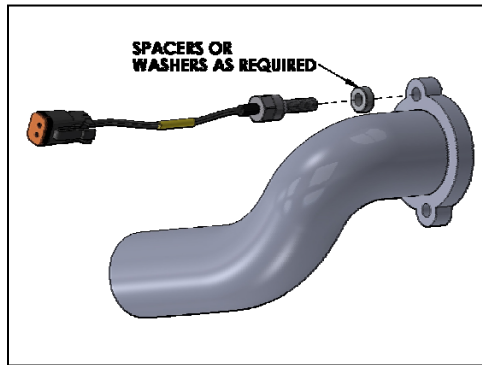


Figure 3

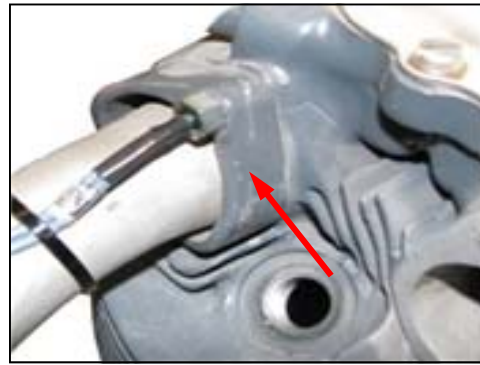


Figure 4

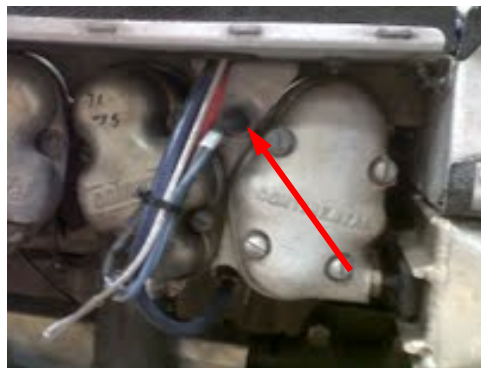


Figure 5

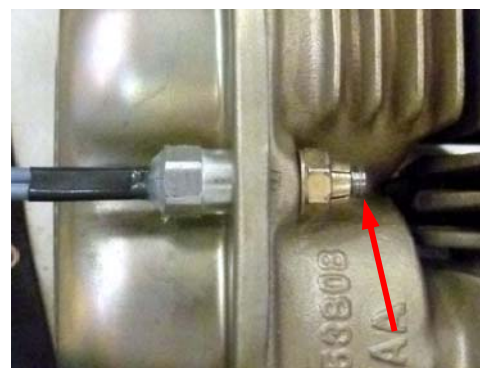


Figure 6



Figure 7

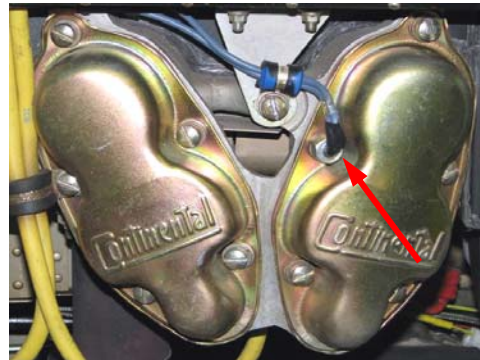


Figure 8

**Notes:**

- Check installation site threads for damage or wear.
- Repair worn threads per manufacturer's instruction, or use Heli-coil insert.
- As required, use aluminum spacer(s) and/or metal washer(s) to prevent over extending or bottoming out of element (Figures 3 through 8).
- A minimum thread engagement of six full threads is required, maximum thread engagement is optimal.
- When properly installed the element body mating surfaces will be in full contact with spacer/washer(s), and component.
- Do not over flex the element lead; this may damage the wiring where it enters the element.

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