Creo Inc.
A subsidiary of Kodak
3700 Gilmore Way
Burnaby, B.C., Canada
V5G 4M1
Tel: 1.604.451.2700
Fax: 1.604.437.9891

Request support:
ecentral.creo.com

www.creo.com

Internal: 719-00658A-EN Rev A
Release date: 04 May 2006

Procedure

Replacing the Coolant Connectors on a TH2 head

Background

The coolant hose connectors have a check valve that is sealed with an O-ring. In some cases, the O-ring can fail, which causes the head to leak coolant when the hoses are disconnected. Failure of the O-ring can prevent coolant from flowing at all, which can cause the thermal imaging head to over-heat. These connectors need to be replaced.

Requirements

To complete this procedure you need:

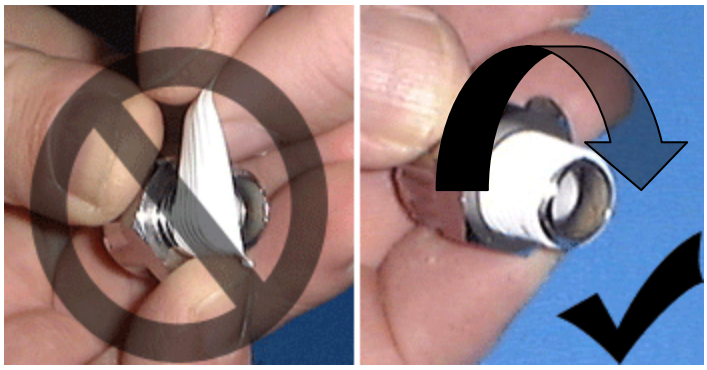
- Kit 512-00325A (fittings and socket)
- Kit 50-2465A to drain the coolant from the head
- Optional: kit 512-00361A (fittings only)

Procedure

Note: If the thermal head over heats and shuts down with error 02311, 02319, or 02321, the coolant connectors may be blocked and should be replaced. If the coolant connectors won't seal and the thermal head leaks coolant when the hoses are disconnected, they should be replaced.

1. Remove the thermal head from the device.
2. Drain the coolant from the head, using kit 50-2465A. Follow the procedure described in the kit.
3. Open kit 512-00325A or 512-00361A and remove the two new coolant connectors (part number 336-00301).

4. Cover the threaded portion of the new connectors with the *Teflon* tape (part number 56-3396) in the kit. Wind the tape clockwise around the threads (in the same direction as the threads). Make sure that there are at least two layers of tape and that you carefully align the tape with the end of the connector.

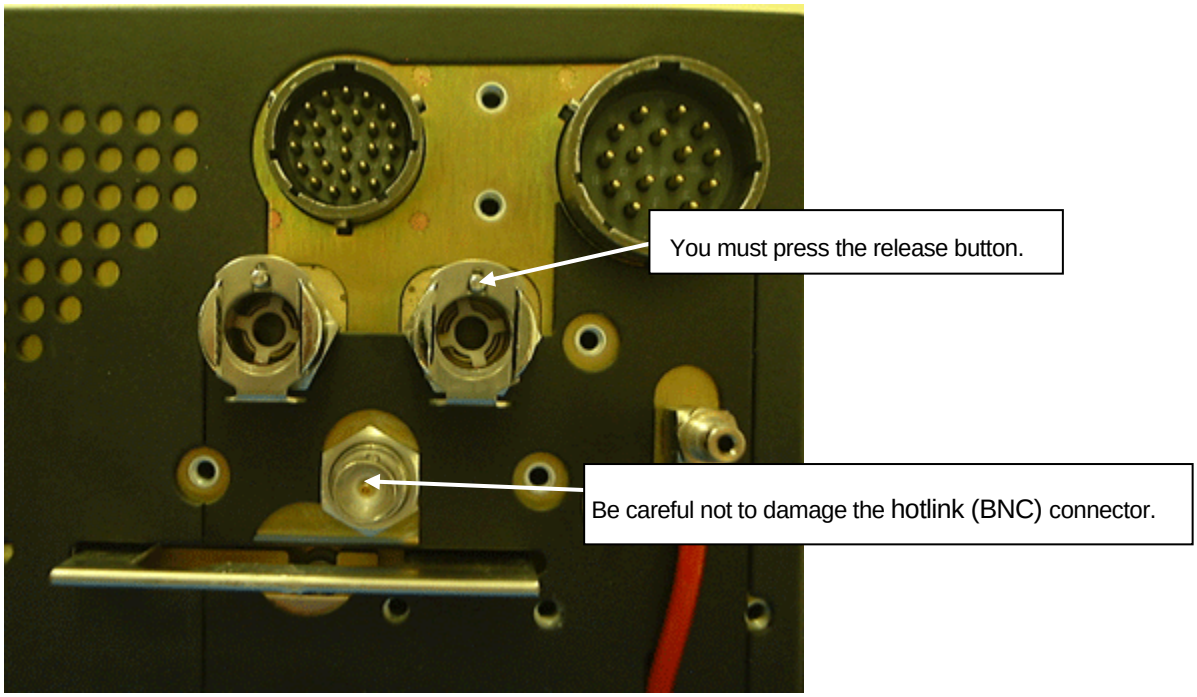


5. Mount a blue washer (part number 304-00234) on the end of each new connector.

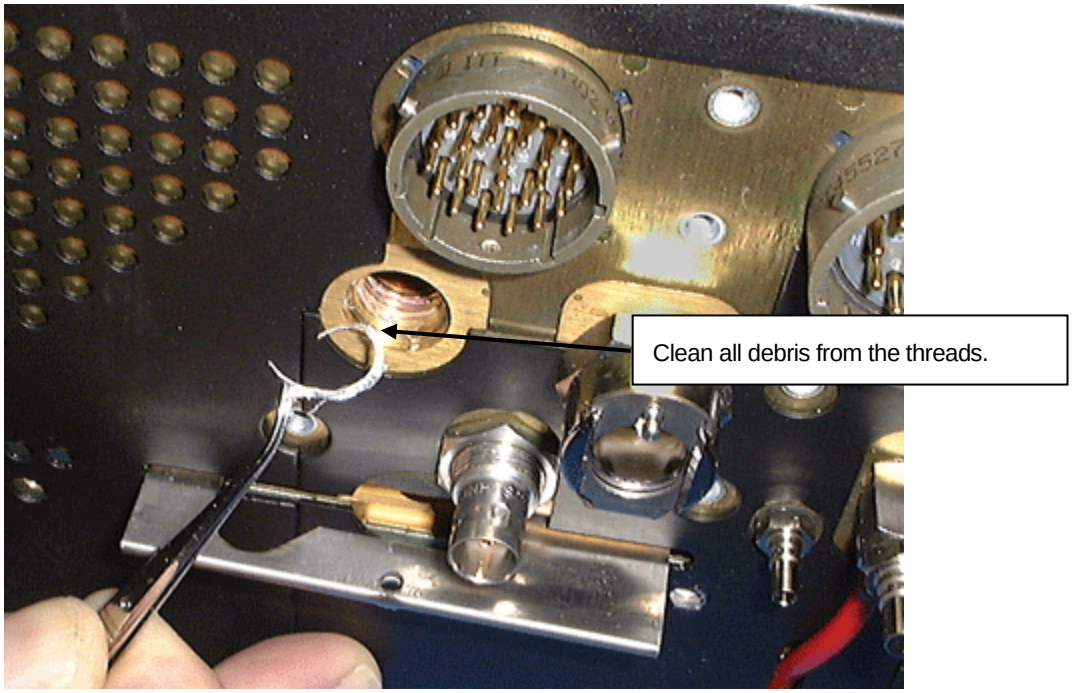


6. Using the ¾" socket (part number 690-00600B) in the kit and a ratchet or adjustable wrench, unscrew both coolant connectors from the thermal head. Be careful not to damage the hotlink (BNC) connector when removing the coolant connectors.

Note: For the socket to fit properly, you must press the release button on the top of the connector.

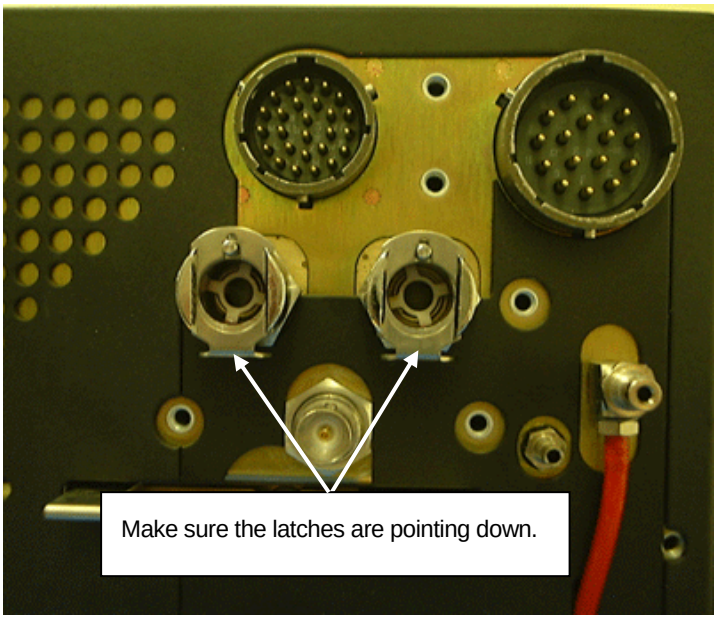


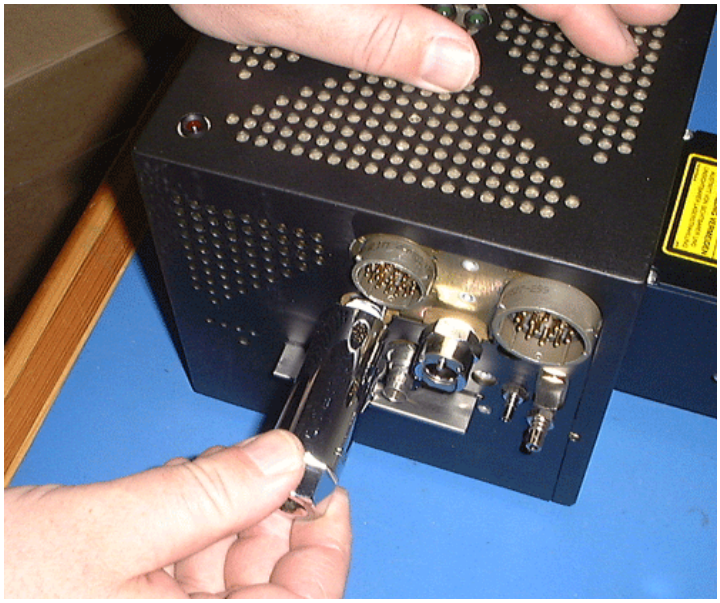
7. Carefully clean any remaining sealant from the threaded connector holes. Make sure that there is no debris on the threading inside the thermal head.



8. Thread the new connectors into the thermal head until they are finger-tight.

9. Using the ¾” socket (part number 690-00600B) in the kit, tighten the connectors at least one more full turn or until the connector is 4 mm from the thermal head. If needed, keep turning until the latch mechanism is pointing down.





Test

1. After you have installed the fittings, re-install the thermal head and connect the coolant hoses to the head.
2. Turn on the device and check for leaks around the fittings.
3. Turn off the device and disconnect the hoses. Ensure that the connectors have sealed. A tiny amount of coolant leakage is normal when the connectors are disconnected. After the coolant stops dripping the fittings should be sealed.
4. If the fittings are leaking at the thread, tighten the fittings one additional turn. If they are still leaking at this point, they are defective and should be replaced.

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