



Screw Replacement Procedure of Itron RIVA CAM Module on IR8140 Router

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Overview

The procedure provided in this document is to establish the alternate procedure for replacing the alignment pin and lock washer with screw in Cisco IR8140 router.



Note This procedure should be implemented only by Itron, for the RIVA CAM module installed on the IR8140 router. Any other parties using this procedure may cause damage to your product and wave the warranty.

- Alignment pin is interfering with the CAM module shield.
- Alignment pin and lock washer needs to be replaced with the screw.
- A proper procedure needs to be formulated to avoid and mitigate the failure modes.


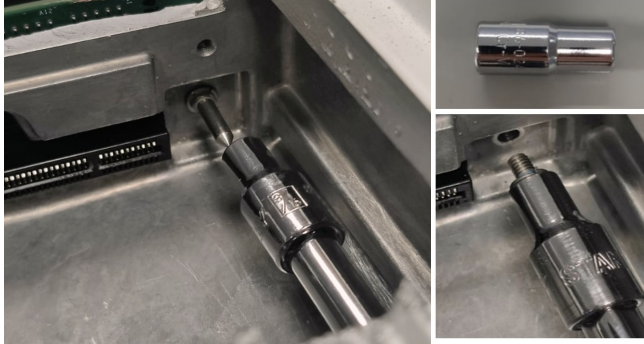

Components Used

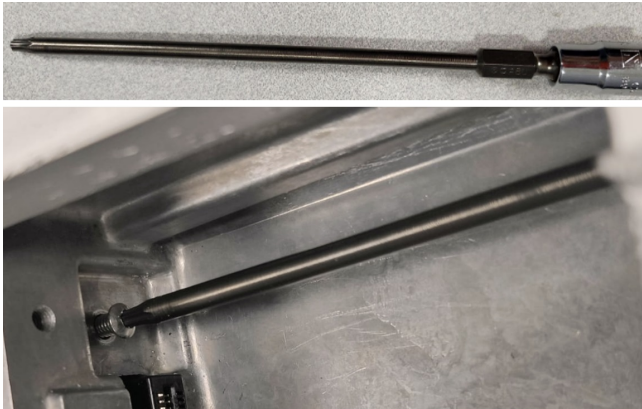
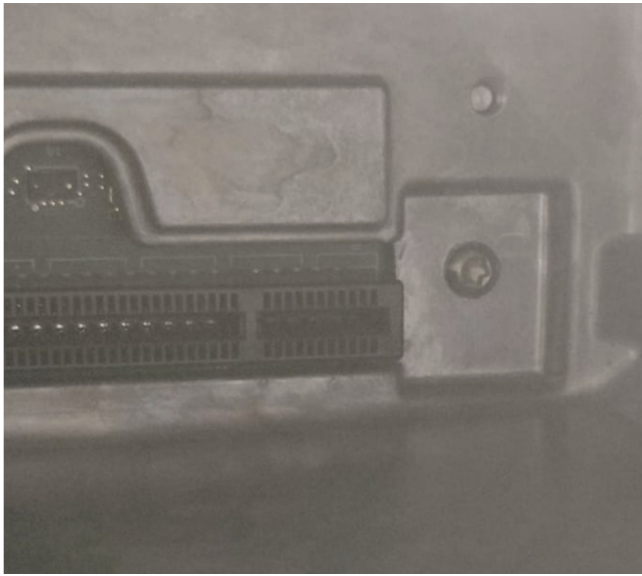
The following components are used in this procedure:

- CISCO IR8140, main unit
- 420-1207-00 - M3.5 X 0.6, Length 8 mm – Torx screw – with nylon patch
- Magnetic retriever – McMaster carr P#- 7385A44 or similar
- 6-inch-long T-10 Torx driver – McMaster car -p#-7396A52 or similar
- Torque driver calibrated to 8-10 in.lbs
- 3/16 Standard socket

Screw Replacement Alternate Procedure

You should follow this procedure carefully to replace the alignment pin and washer with the screw.

Step No.	Step Description	Failure Mode	Remarks
1	Place the IR8140 in the fixture. (In horizontal orientation) 	—	—
2	Use 3/16 socket driver as shown to remove the alignment pin and washer. The washer is intended to come off with the alignment pin. 	The socket might hit the connector in the slot.	<ul style="list-style-type: none"> • Make sure alignment pin and washer is removed. • Do not disturb or hit any other components.
3	Check to see the washer is removed. If not, use a magnetic retriever to remove the washer. 	Washer remains in the cavity.	Make sure the washer is removed.
4	Carefully set the alignment pin and washer aside and discard these components.	The components accidentally fall into the IR8140 cavity.	Carefully discard these components.

Step No.	Step Description	Failure Mode	Remarks
5	<p>Use Torx screwdriver to assemble the screw inside the cavity to 8-10 in.lbs torque.</p> 	<ul style="list-style-type: none"> • Screw is not properly seated. • Screw is cross threaded. • Screwdriver might hit the connector in the slot. 	<p>Check whether the screw is properly assembled and seated.</p>
6	<p>Inspect whether the assembly is properly done.</p> 	<ul style="list-style-type: none"> • Damaged components • Unseated screw • Alignment pin or washer in cavity • Wrong alignment pin removed 	<ul style="list-style-type: none"> • Ensure the correct alignment pin and washer was removed. • Ensure screw is fully seated. • Ensure no damage components.



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