

# TECHNICAL BULLETIN



Customer  
Support

**SUBJECT:** Ignition - Distribution - Exciter CH92040-1 - Modification/Repair

## **DESCRIPTION**

The CH92040-1 ignition exciter (S/N: 03025970) Figure 1, is an industrial type exciter used on Northrop Grumman's WR21 engine program. The CH92040-1 exciter consist of nine (9) individual exciter modules housed in one enclosure. During inspection of exciter modules #3 and #4 (HT3 and HT4), it was noted that the #10 flat washer (used in conjunction with the #10 split washer for hardware retention of one of four Module securing bolts) were contacting the purple diagnostics wire. The purple wire ("Module Fault" signal), which is connected to both the Control and LED Display PCB was shorted to chassis ground by the flat washer.

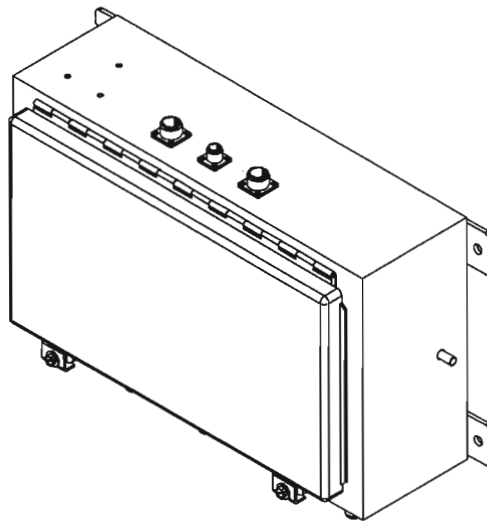


Figure 1. CH92040-1 Ignition Exciter

## **RECOMMENDATIONS**

Champion Aerospace recommends that the #10 flat washer used in securing the exciter modules (9 per exciter) be removed to prevent the possibility of contact with diagnostic solder pads. The #10 flat washer on the #10 bolt nearest the diagnostic solder pads, is the only washer identified for removal. The remaining bolts and hardware do not affect any circuits and therefore do not require removal.

## **ACCOMPLISHMENT INSTRUCTIONS**

1. Using a slotted screwdriver or a 5/16 inch nut driver, remove the #10 bolt nearest the bundle of wires secured to the exciter module standoff, (Refer to Figure 2). Once the bolt is separated from the mounting PCB, it may require an upward force while twisting the bolt out to re-engage the captive threads inside the standoff. Remove bolt.
2. Remove the #10 flat washer from the bolt leaving the split washer on the bolt. (Refer to Figure 2)
3. Re-install bolt with split washer.
4. Using a torque wrench torque with a 5/16 inch socket, torque bolt to 20 in/lbs.
5. Repeat procedure for all nine (9) exciter modules.

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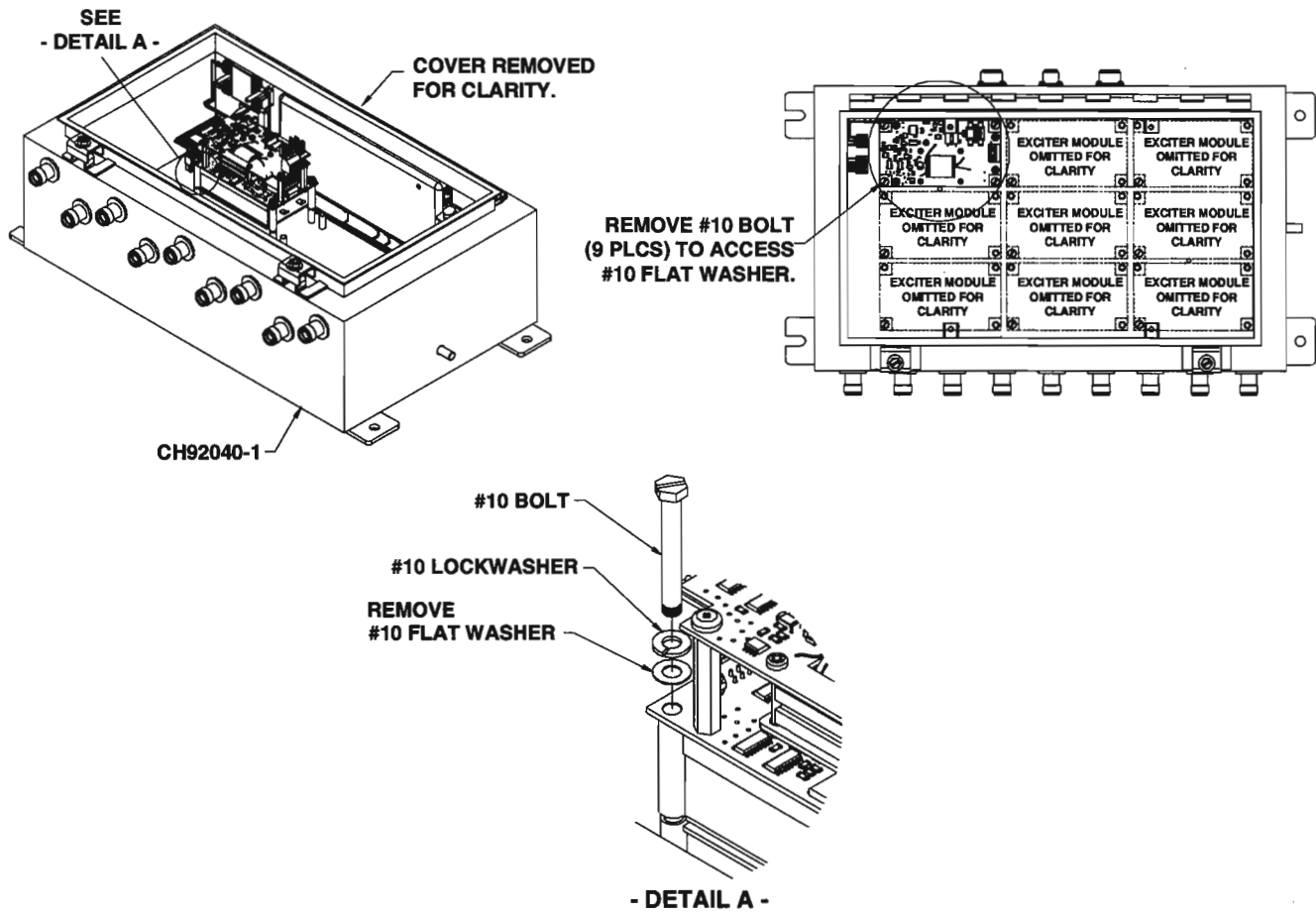


Figure 2. CH92040-1 Ignition Exciter Repair Illustration