



Technical Service Bulletin

Reference: ICOM-TSB16-002	Date: 10/21/2016
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NON-RETURN VALVE SOLENOID PISTON UPDATE

UNITS AFFECTED:

Vehicles equipped with the ICOM JTG II Bi-Fuel System that encounter severe duty cycles of operation.

SERVICE INFORMATION:

This bulletin provides information on how to update the piston inside the non-return valve solenoid post.

PURPOSE:

To eliminate a possible hesitation on acceleration.

ACTION:

Review Service Procedure - Attachment 'A'

1. Obtain the following:

- A141 Solenoid Piston Kit (Fig. 1)
- 9/16" Wrench
- 13/16" Wrench



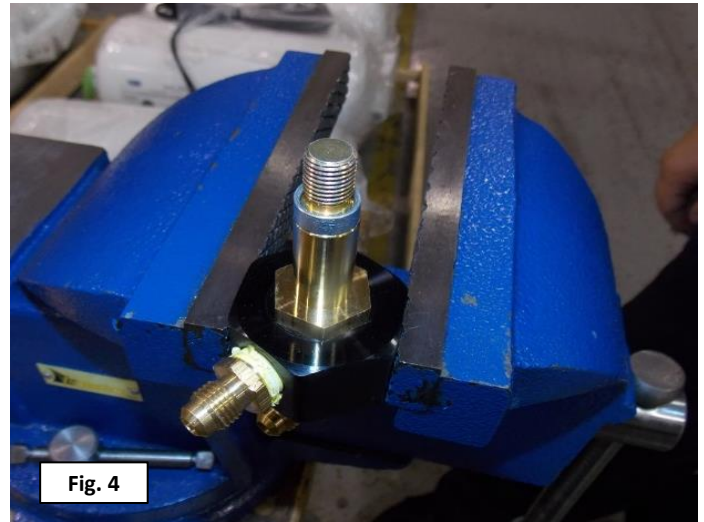
2. Remove the non-return valve from the vehicle; secure the valve into a vise as shown. (Fig. 2)



3. Using a 9/16" wrench, remove the nut on the top of the solenoid and set aside for later re-installation. (Fig. 3)



4. Carefully remove the solenoid from the valve post
(Note - make sure the metal spacer below the threaded portion of the post does not get removed). (Fig. 4)



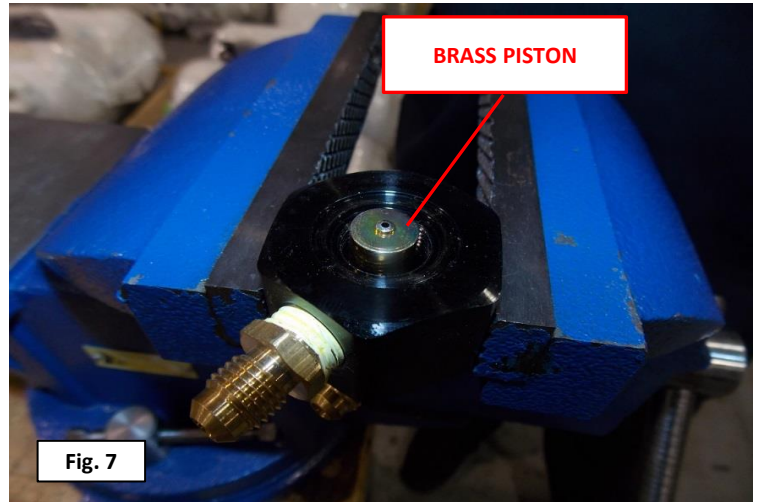
5. Using a 13/16" wrench, carefully remove the solenoid post from the valve. (Fig. 5)



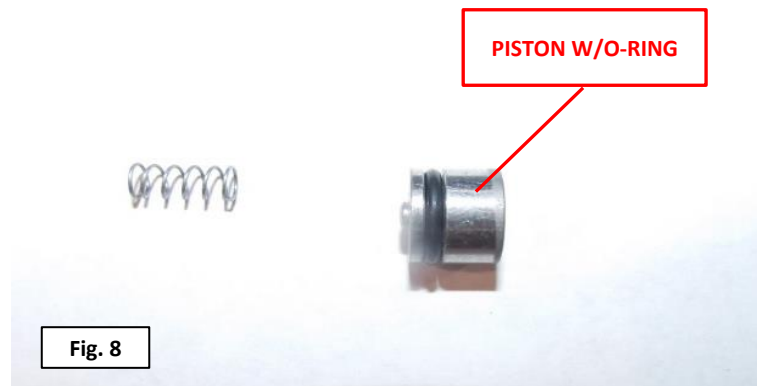
6. Carefully remove the plunger and spring from inside the solenoid post as shown. Remove the spring from the top of the plunger & discard. (Fig. 6)



7. Remove & discard the brass piston from inside the valve. (Fig. 7)



8. Obtain the piston w/o-ring from the A141 kit. (Fig. 8)



9. Align & seat the piston w/o-ring into the port in the valve with the o-ring positioned 'up' as shown. (Fig. 9)



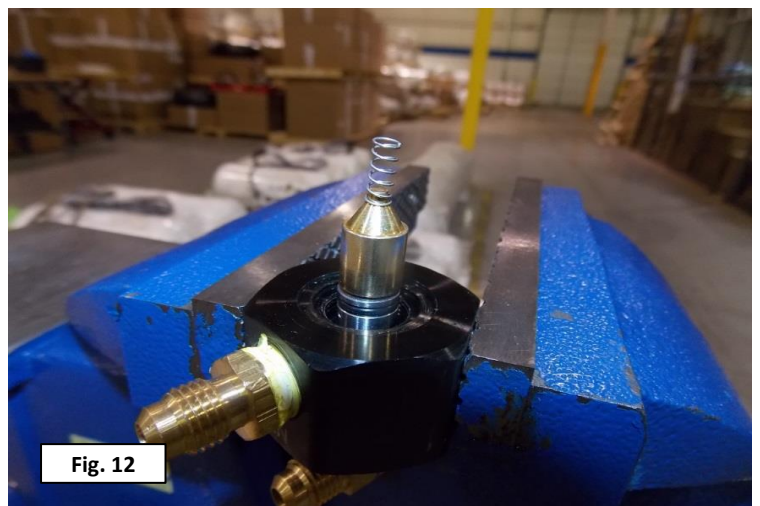
10. Obtain the spring from the A141 kit. (Fig. 10)



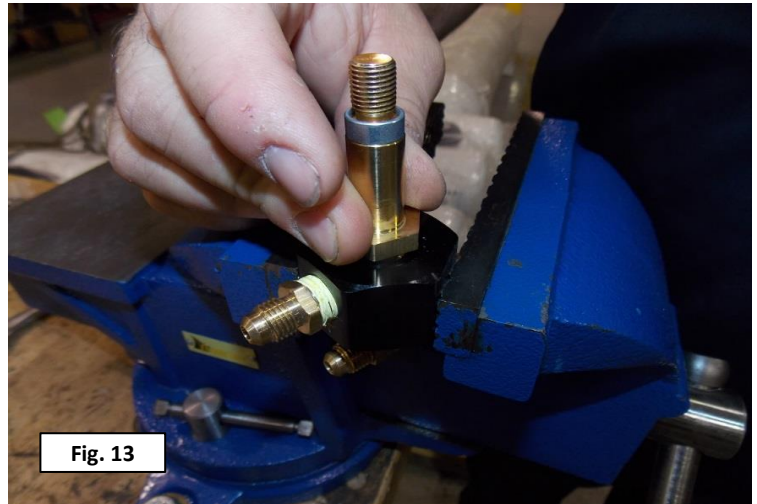
11. Carefully align & seat the spring onto the top of the plunger as shown. (Fig. 11)



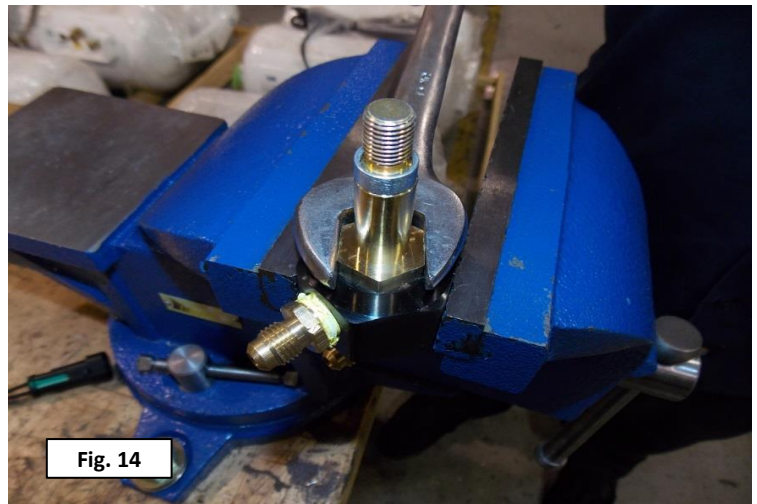
12. Carefully align & seat the plunger w/spring onto the top of the piston in the valve as shown. (Fig. 12)



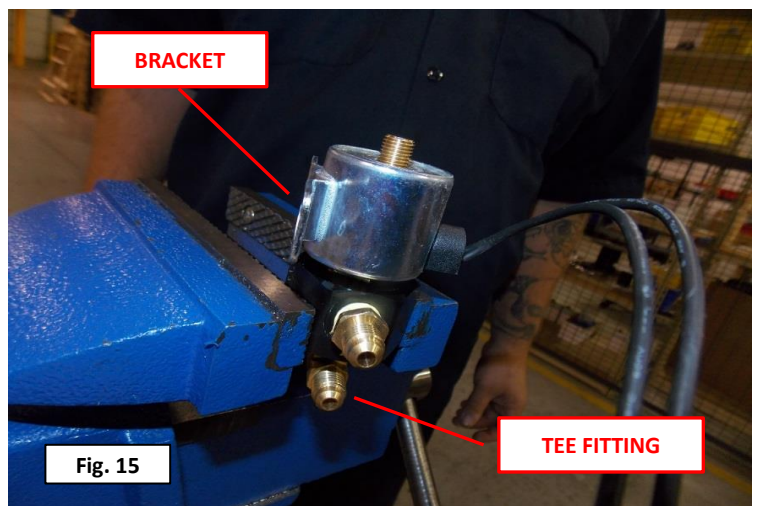
13. Align the opening on the underside of the solenoid post to the spring, plunger and piston in the valve; insert & handstart the solenoid piston into the valve as shown. (Fig. 13)



14. Using a 13/16" wrench, fully tighten the solenoid post into the valve. (Fig. 14)



15. Insert the solenoid onto the solenoid post; Align the bracket attached to the solenoid parallel to the tee fitting attached to the bottom of the valve as shown. (Fig. 15)



16. Install & handtighten the nut removed in Step # 3 onto the solenoid post; Using a 9/16" wrench, fully tighten the nut onto the solenoid post. (Fig. 16)
(Note - make sure the bracket on the solenoid stays parallel to the tee fitting while tightening the nut)

