

# NATIONAL INTERAGENCY FIRE CENTER

3833 South Development Avenue  
Boise, Idaho 83705

9216 NFES (LLFA240000)

September 22, 2016

## NATIONAL FIRE EQUIPMENT SYSTEM CACHE MEMORANDUM NO. 16-2

To: NFES: National Interagency Support Caches

From: David Haston, Chair – NWCG Equipment Technology Committee

Subject: Loose Fitting on Fuel Line

A loose fitting on the fuel line inlet in a fuel line assembly (NFES #0113) manufactured by Waterax was noted by Northern Rockies Fire Cache, reviewed by the National Technology and Development Program in San Dimas, and confirmed by the manufacturer. Please note that this only applies to the fuel lines manufactured by Waterax (Figure 1).



Figure 1—Comparison of fuel lines currently contracted by DLA. The affected fuel line from Waterax is on the right. The unaffected fuel line from Drop Systems is on the left.



The quick connect fuel adapter was not fully threaded into the female swivel fitting on the fuel line inlet (Figure 2). The error resulted from unclear assembly instructions that have since been corrected (Appendix A).

### **Required Action**

The loose brass fitting is to be corrected at all caches. Thread sealant is not necessary as this is a compression fitting. Use a 7/16 inch and 9/16 inch wrench to tighten the quick connect fuel adapter to the fuel line SAE swivel fitting between 1/4 - 1/3 turn past finger tight (Figure 3). Overtightening can damage the fitting.

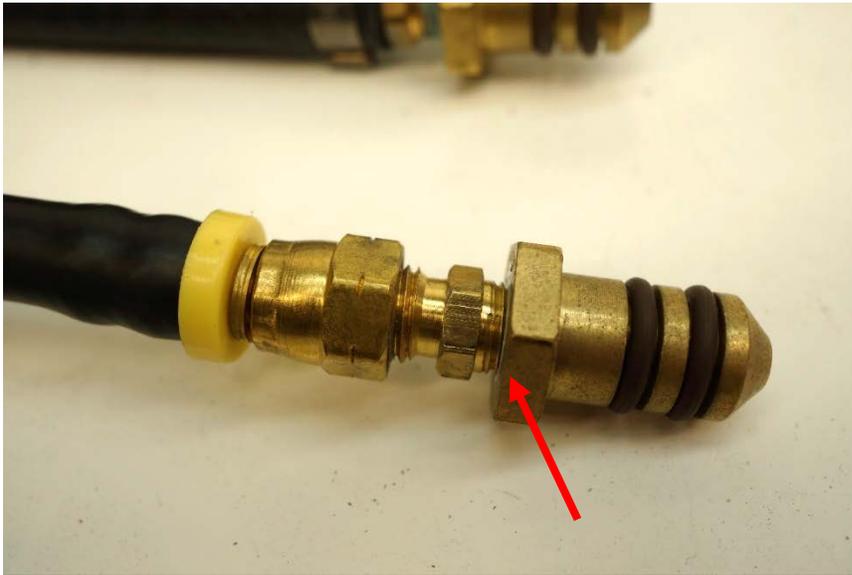


Figure 2—Fuel inlet quick connect as delivered. Note that the connection is not fully threaded.



Figure 3—Fuel inlet quick connect after wrench tightening, 1/3 turn past finger tight. Note the full engagement of the threads.

Please contact Sam Wu, National Technology and Development Program at San Dimas, at (909) 929-7078 if you have any questions or comments regarding this information.

*David V. Haston*

David Haston

Chair – NWCG Equipment Technology Committee

cc:

State Fire Management Officers – BLM

Regional Directors Fire and Aviation Management – USFS

National Technology and Development Program – San Dimas, Missoula

Agency Directors – NIFC

Logistics Center – NICC

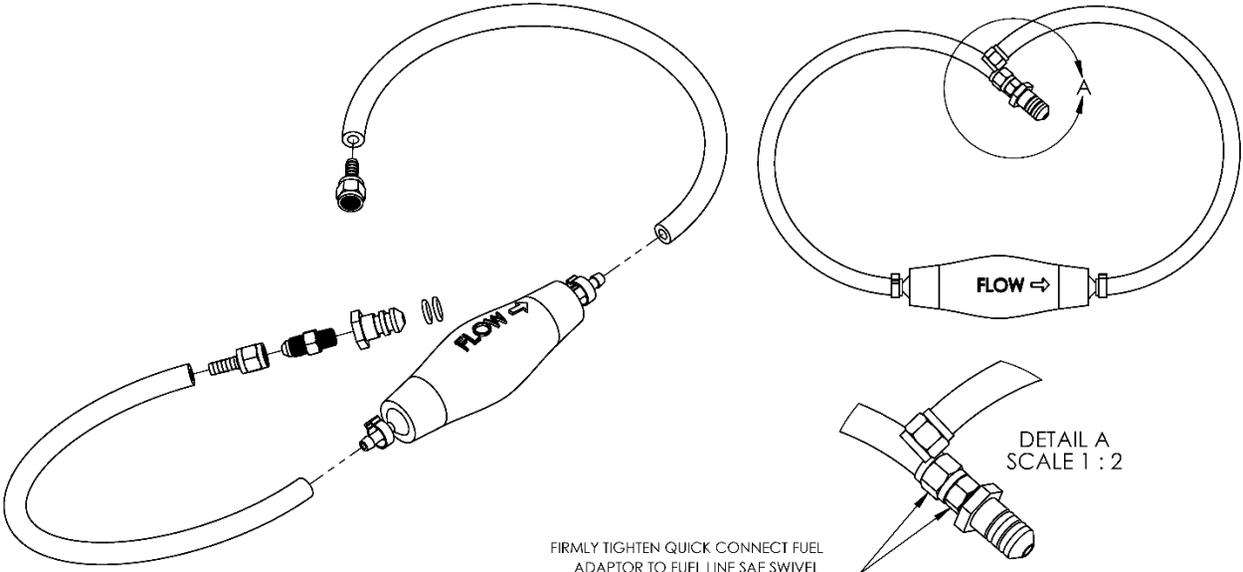
John Hill – DLA

Lauren Colabelli – DLA



Appendix A – Assembly Instructions for Quick Connect Fuel Adaptor from Waterax

		REVISIONS					
ZONE	REV.	DESCRIPTION	AUTHOR	DATE	APPROVED BY	DATE	ECO #



FIRMLY TIGHTEN QUICK CONNECT FUEL ADAPTOR TO FUEL LINE SAE SWIVEL FITTING USING 7/16" & 9/16" WRENCHES ON FUEL LINE INLET SIDE.

DETAIL A  
SCALE 1 : 2

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PROJECTION

TITLE FUEL LINE - ASSEMBLY INSTRUCTIONS FOR QUICK CONNECT FUEL ADAPTOR

AUTHOR: N. TAN DATE 13-SEP-16 DOC# 600136 - ASSEMBLY INSTRUCTIONS

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