

## AIRCRAFT SPECIALTY



## FLIGHTLINES

### **RV-12 HOSE GUIDANCE MANUAL – QUESTIONS AND ANSWERS**

**Question:** How can I tell what kind of fuel hoses I currently have on my aircraft?

**Answer:** To the best of our knowledge, the RV-12 appears to have shipped stock with three different kinds of fuel systems throughout the years. Information and pictures are later in this document.

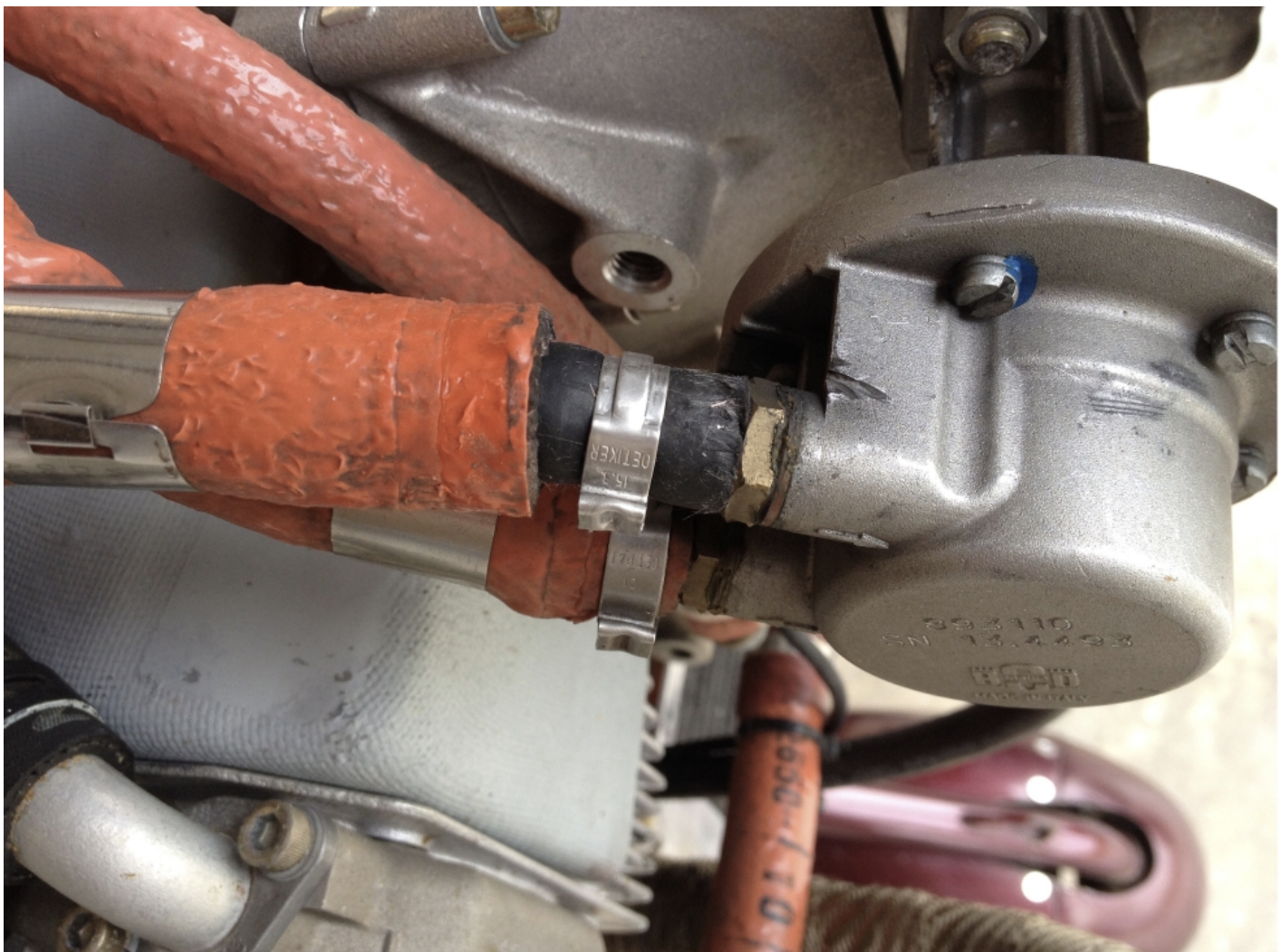
**Question:** What kind of oil system does my RV-12 Have?

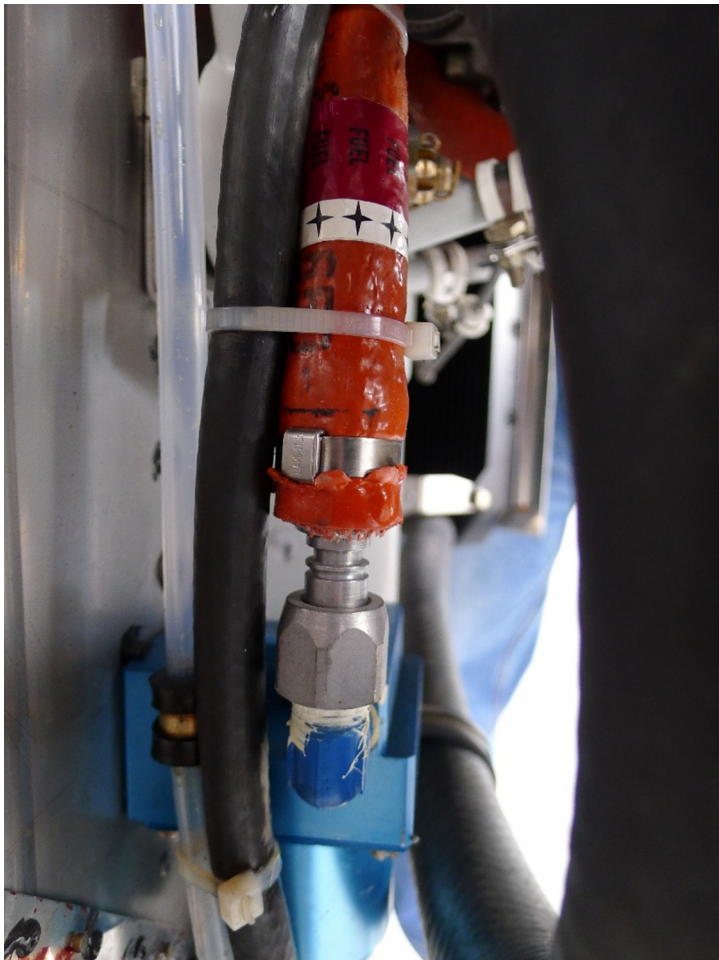
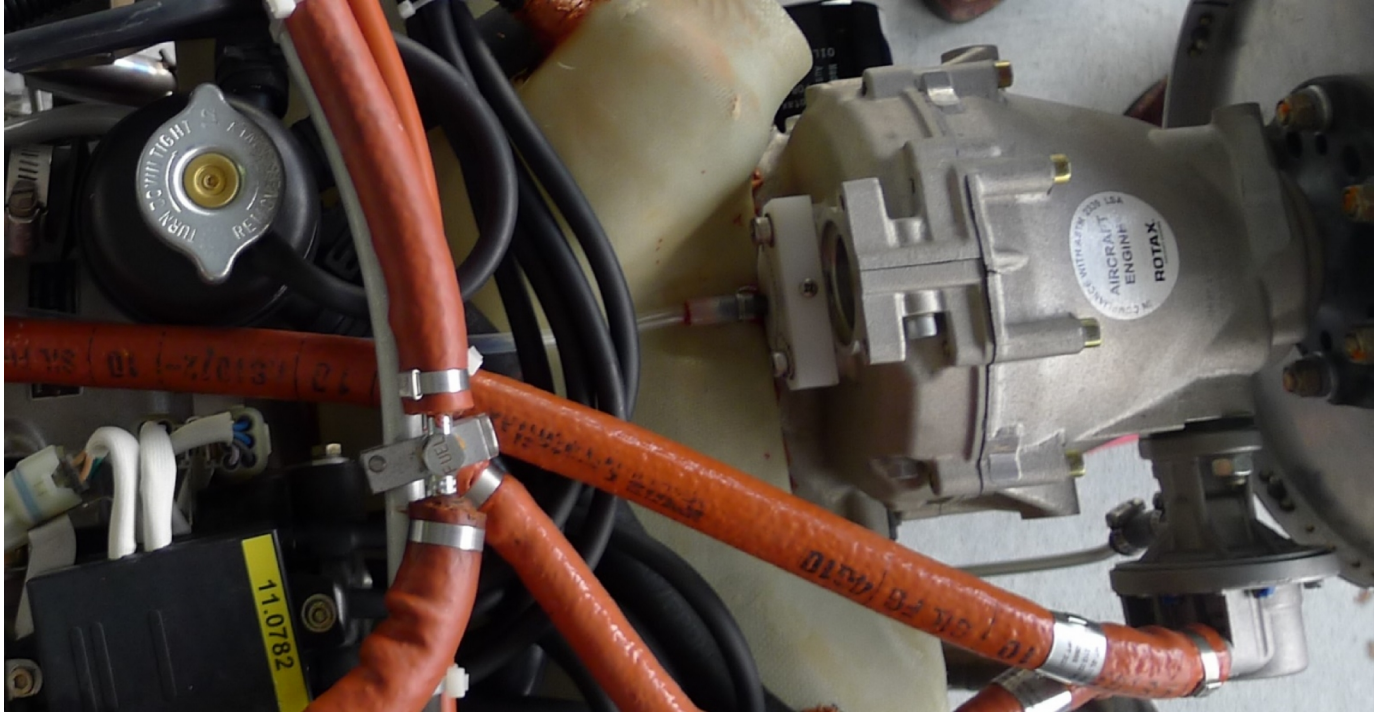
**Answer:** As long as we can remember, the RV-12 has been shipped with a Teflon Oil System. However, we have also been told by a maintenance shop that they have seen several early RV-12 aircraft come through with Rubber Oil Hoses also. The hoses that have been supplied with the RV-12 carry a 10 year recommended replacement schedule per the RV-12 Maintenance Manual.

## STOCK VAN'S FUEL SYSTEMS

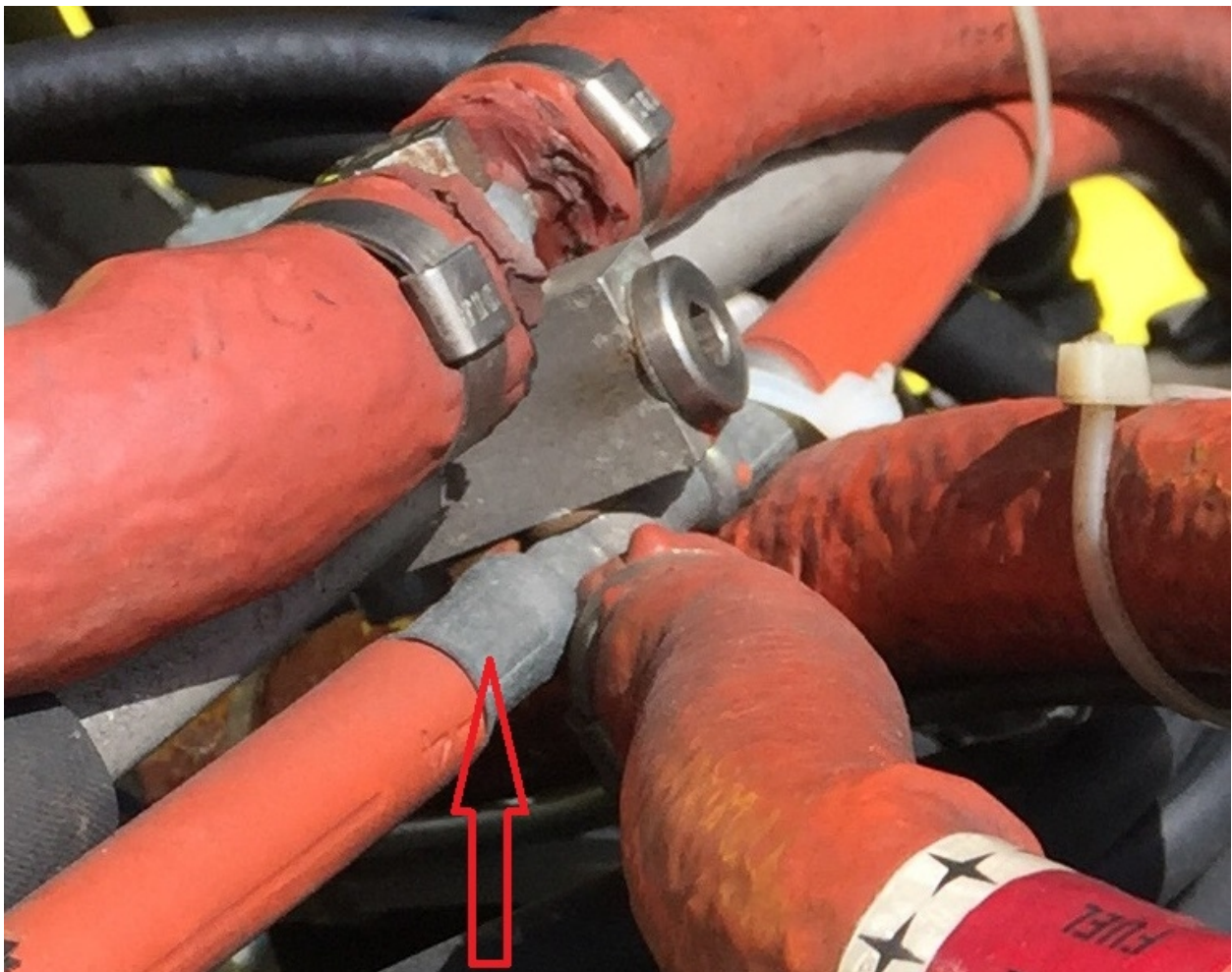
**Stock System 1 (All Rubber)** – The original RV-12 Fuel systems were all rubber systems. All fuel hoses were made of rubber. There have been cases of these rubber lines degrading and debris contaminating portions of the fuel system. All these hoses have a recommended 5 year replacement schedule.

The hoses look like this.

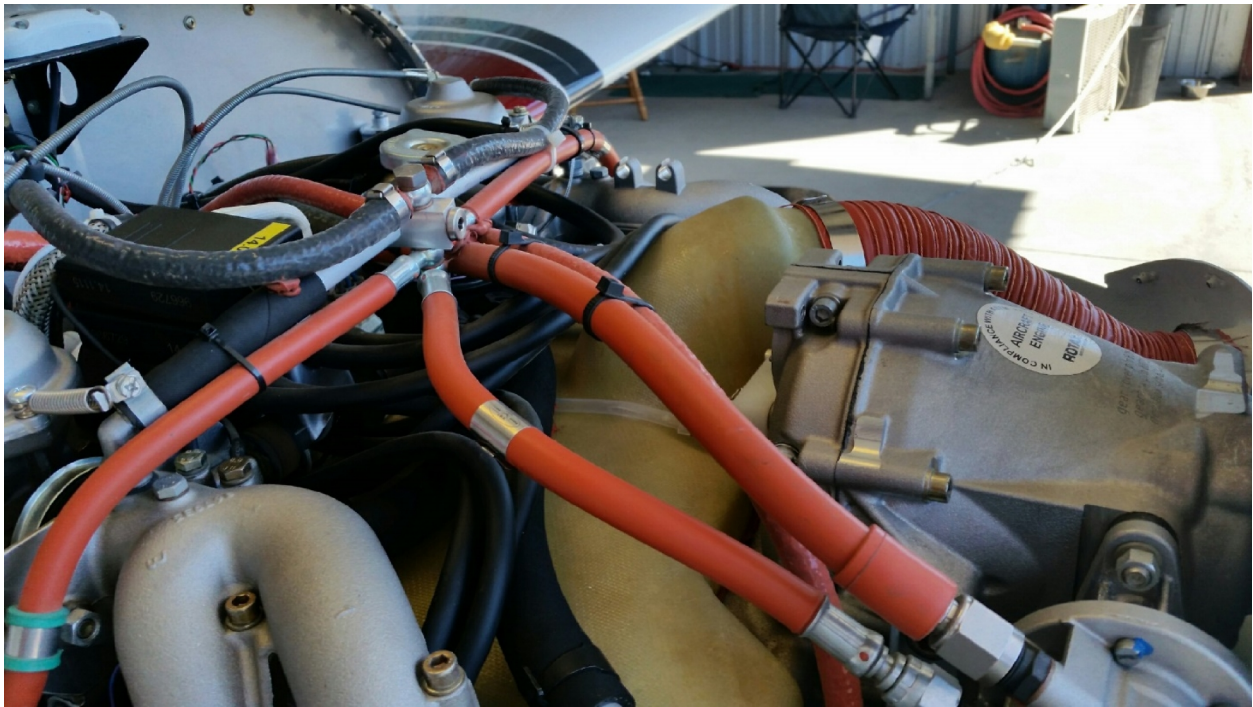




Stock System 2 (Combination Rubber and Teflon) – Rotax changed over their fuel system to Teflon carb lines at some point. These are integral firesleeve Stratoflex 101-4 orange fuel lines. These lines were combined with rubber lines on the rest of the fuel system. The arrow points to the Carb line. In higher corrosion environments, the collars may corrode as they are not stainless steel and the hose does not utilize a silicone sealing cuff on the end.



Stock System 3 – All Teflon Fuel System - The newer RV-12 kits are shipping with an all Teflon Fuel System. It appears that most of the hoses are Conductive Teflon. The only hose that is Non-Conductive Teflon is the VA-216 Hose assembly. There is no longer a recommended replacement schedule on these hoses, except for the VA-216 which has a 10 year recommended replacement schedule per the Van's manual.



## OIL SYSTEM REPLACEMENT OPTIONS

Vans places a 10 year replacement schedule on Oil Lines on the RV-12.

1. ASF Option 1- Replacing the three stock Oil hoses. The only change we make is we utilize a banjo oil fitting included in the kit on the bottom of the engine to eliminate the exhaust clearance issues on it that many builders have experienced. (Available in standard or integral firesleeve)



3. ASF Option 2 – Replacing the entire stock oil system and adding a thermostat into it. (Available in standard or integral Firesleeve) More information available in the online manual.