

Hoses, Instrument Panels, Custom Products and Accessories

FOR EXPERIMENTAL AIRCRAFT



RV-12 Crossover Hoses Installation Manual

Thank you for purchasing your RV-12 Crossover Hose Kit. These were designed to be extremely high quality hoses that will provide superior performance and durability when compared to the standard plastic cabin hoses.

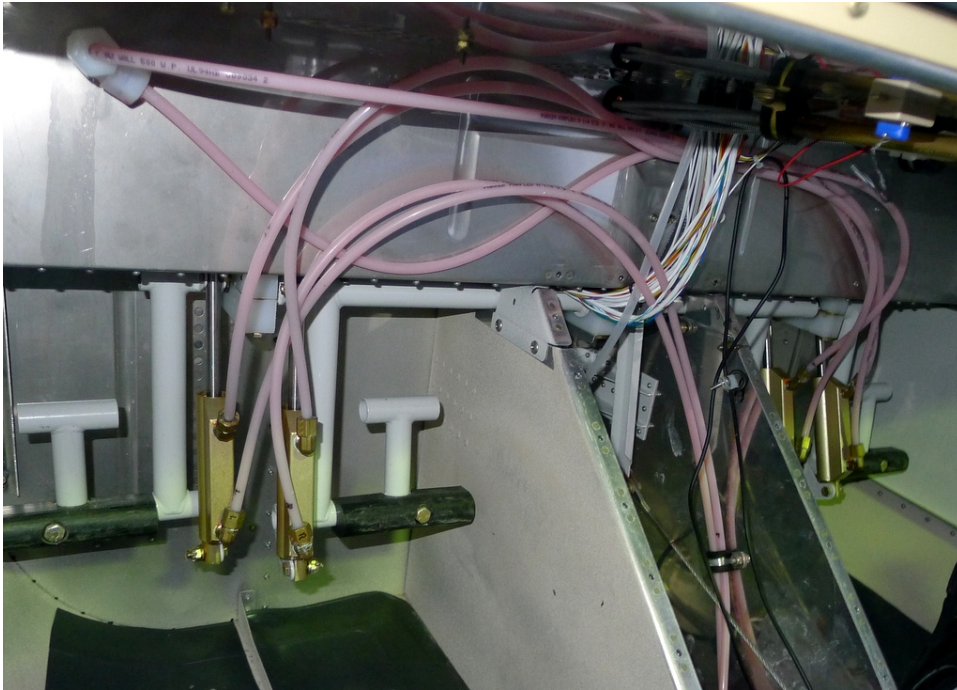
Your Kit will include the following items:

1. Stainless braided hoses
2. All required AN fittings to adapt this to your aircraft
3. Conversion fittings for Matco Parking Brake installation, or conversion fittings for non Matco parking brake installation.



Step 1: Here is a picture of the complete setup prior to installation of the new hose kit. You will need to drain the hydraulic fluid out of your aircraft to prevent making a mess. If you were thinking of installing the gear leg hoses

also, this is a great time to do that conversion kit also since you will be bleeding the brake lines. Once the lines are all bled, please remove the plastic lines and the fittings from your aircraft. Please note that you will be replacing all the lines that are visible in the cabin. The mating point between the two systems will be in the tunnel near the adel clamp that holds the plastic gear lines.



Step 2: If using a Matco Parking Brake, please install it in the tunnel at this time.

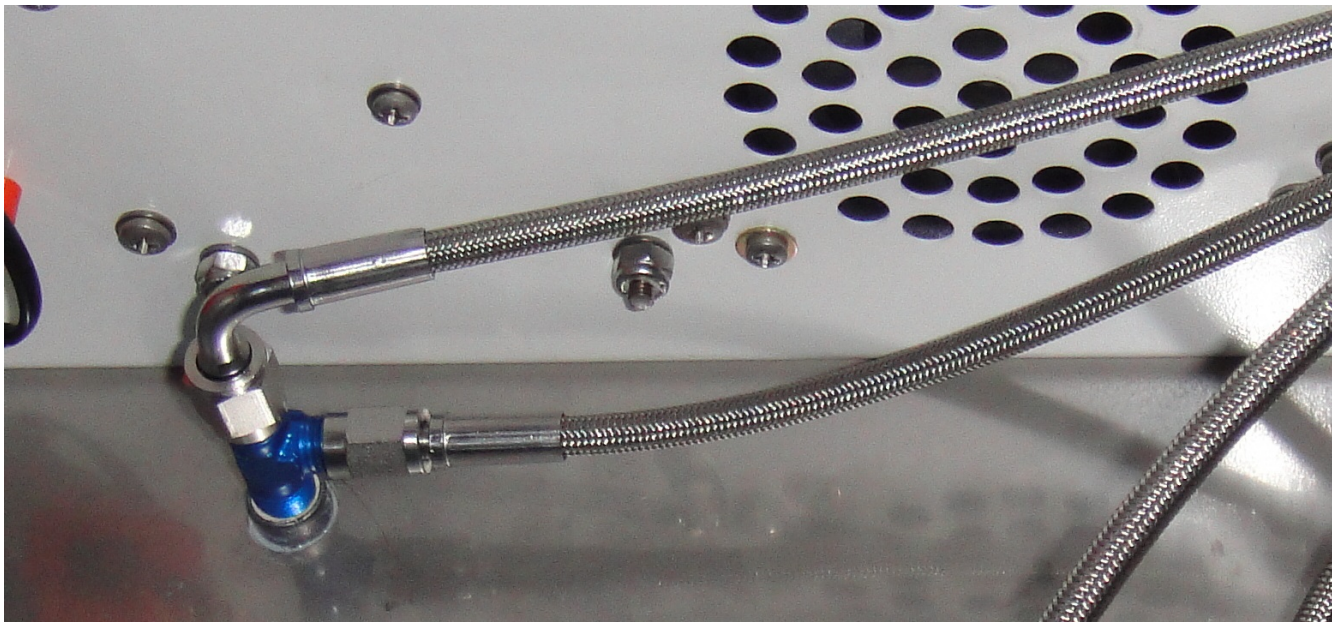
VERY VERY IMPORTANT- PLEASE NOTE THAT COMPRESSION FITTINGS ARE INCLUDED IN THIS. HOWEVER, YOU MUST RETAIN THE BRASS INSERT IN YOUR PLASTIC LINES TO BE USED WITH THE COMPRESSION FITTINGS. WHEN YOU CUT THE PLASTIC TUBES TO THE CORRECT LENGTH, PLEASE RE INSTALL THE BRASS TUBE.



Step 3: Once the lines are removed, please install the AN fittings provided and tighten up all lines. Lines are to be installed as follows. PLEASE VERIFY THESE ROUTINGS AGAINST SECTION 27 OF YOUR VAN'S INSTALLATION MANUAL to DOUBLE CHECK ROUTINGS.

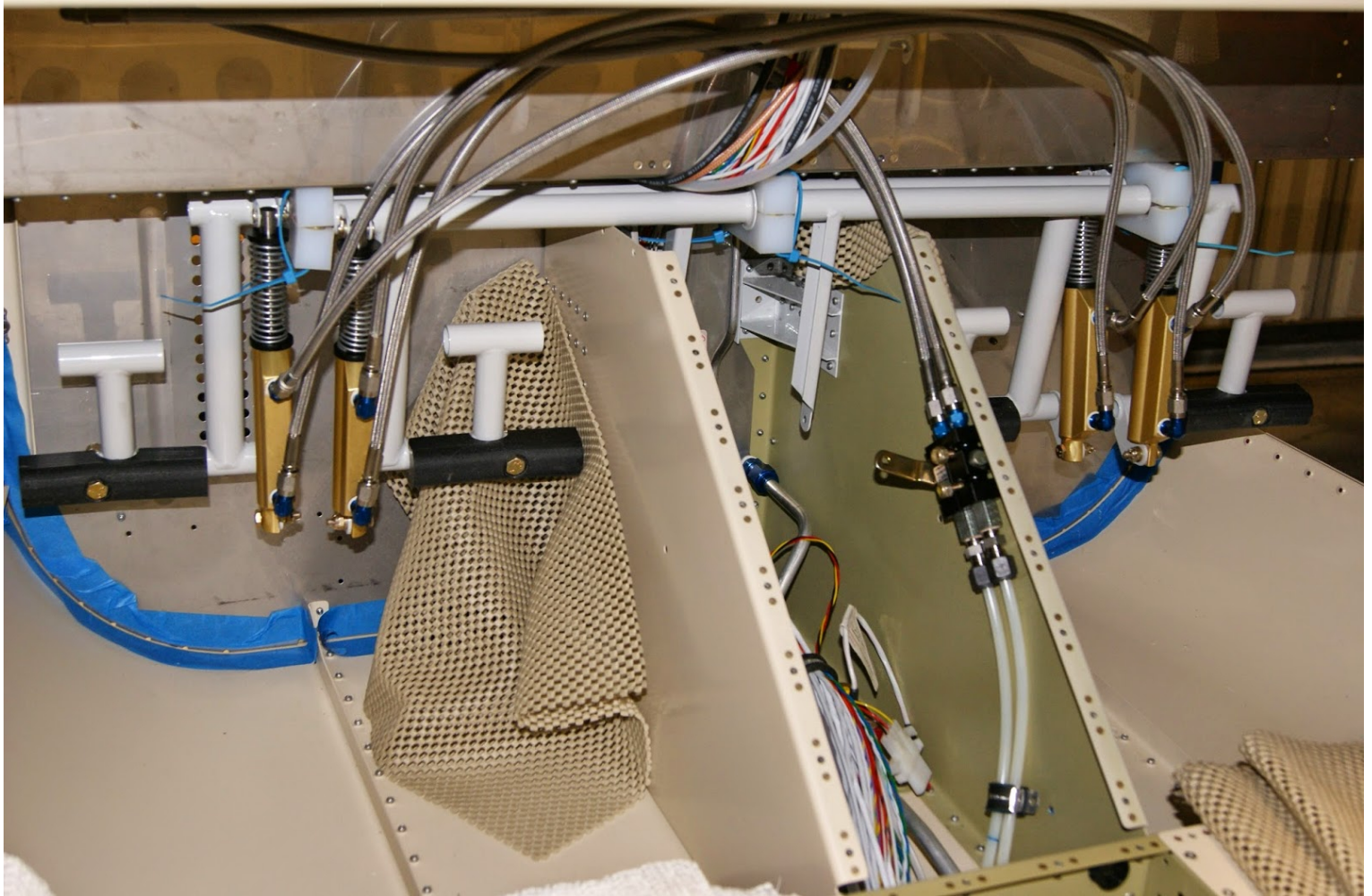
- A. Hose 1 (Approximately 37.5") – Lt Side Right pedal top 90 degree elbow to Right side right pedal bottom 90 degree elbow
- B. Hose 2 (Approximately 36.5") - Lt Side Left Pedal top 45 degree elbow to Right Side left pedal bottom 90 degree elbow
- C. Hose 3 (90 degree fitting on one end) – Attach the 90 degree fitting to the reservoir fitting that sticks straight out as shown. Attach straight fitting to Right side right pedal top 45 degree elbow.
- D. Hose 4 (Has a 45 degree fitting on one end and straight on the other) - Right Side Left pedal top straight fitting to fitting that parallels firewall on the reservoir fitting.

NOTE THE PICTURE BELOW OF HOSE 3 and 4 at the reservoir fitting. This install is a lot cleaner than the original Vans Version with the hoses coming out at 90 degree angles to each other.



- E. Hose 5 (Length Varies Depending on if parking brake is used. This hose is the longer of the two short ones) – Left side left pedal bottom 90 degree fitting to either the parking brake fitting or the compression to Flare fitting
- F. Hose 6 (Length Varies depending on if parking brake is used. This hose is the longer of the two short hoses) – Left side right pedal bottom 90 degree elbow to parking brake valve fitting or to the plastic line to flare compression adapter fitting.

Step 4: If you purchased the non coated lines (No longer available. All lines are clear coated), you will still receive two lines that are coated. This is to prevent noise from movement between the hoses and metal components it is near. You may want to move the ADEL clamp that holds these lines aft by a few inches. This procedure will allow adequate space between the hoses and the bulkheads so that the braid doesn't rub against it. If you purchase the braided hoses with the anti abrasion covering, this is optional but not necessary. All the hoses will be coated with anti abrasion hoses when you order the coated kit.



Step 5: Bleed your brake system and test for sponginess.

Step 6: Enjoy your new worry free brake system that should never leak and will provide you with superior performance and durability.