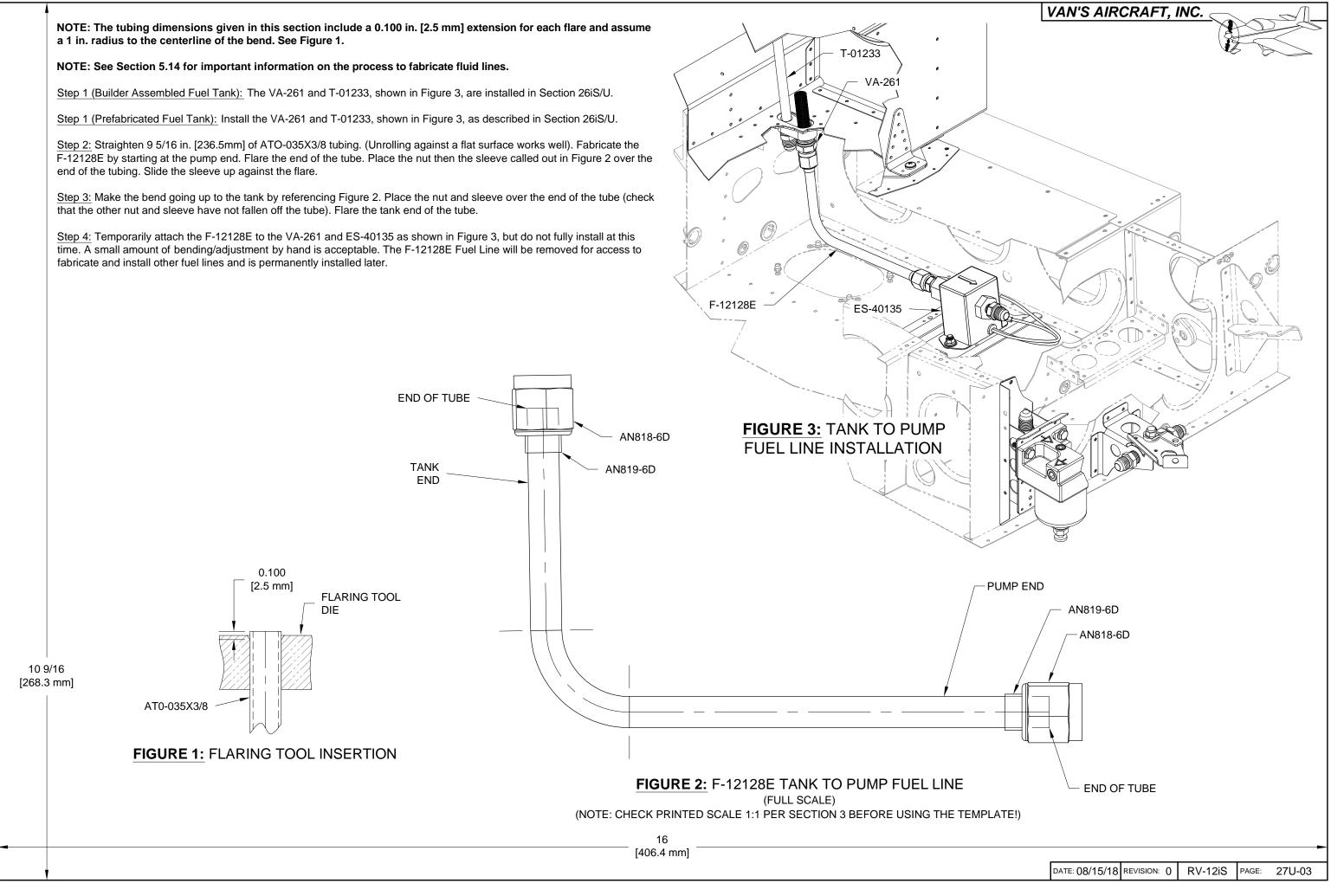
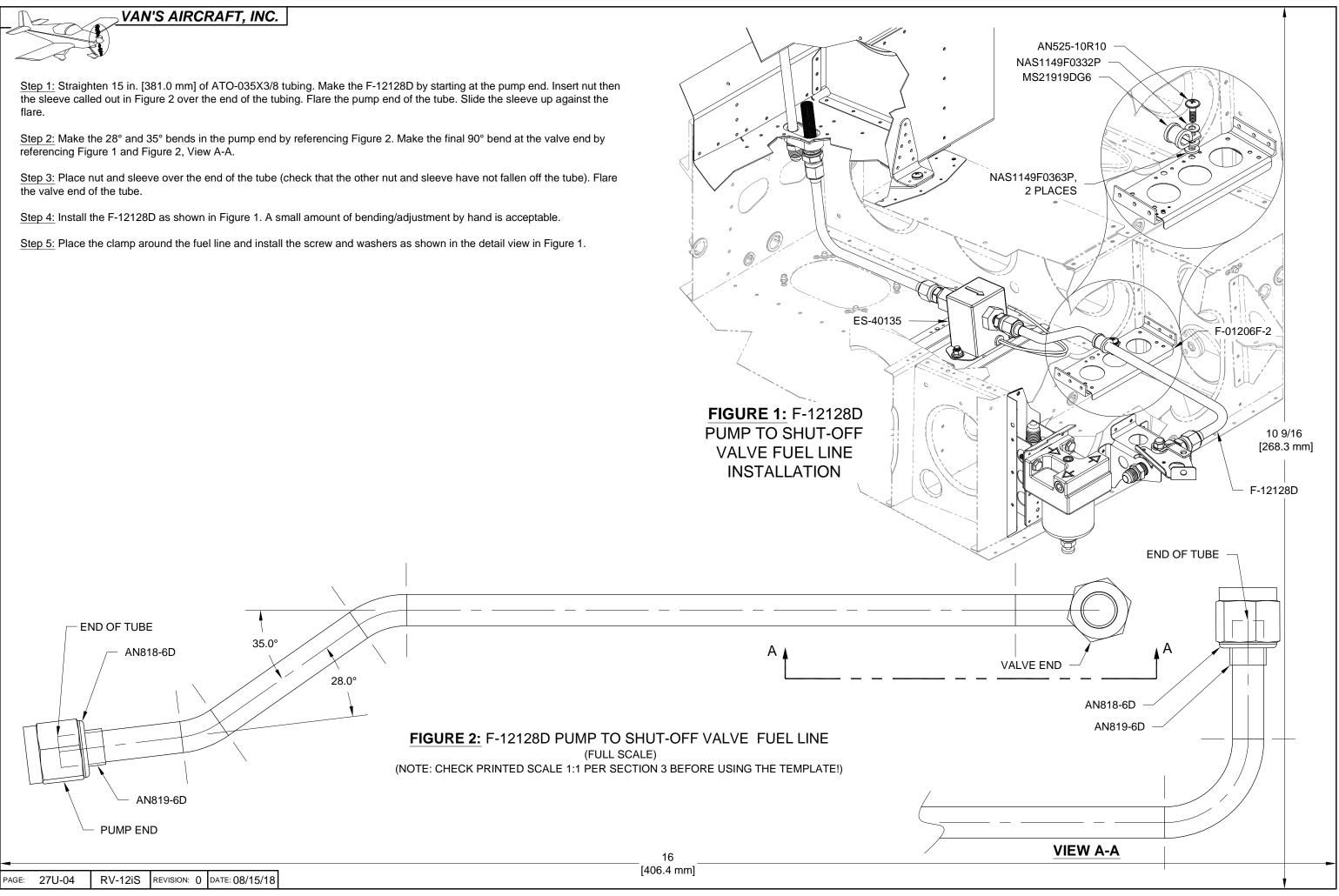


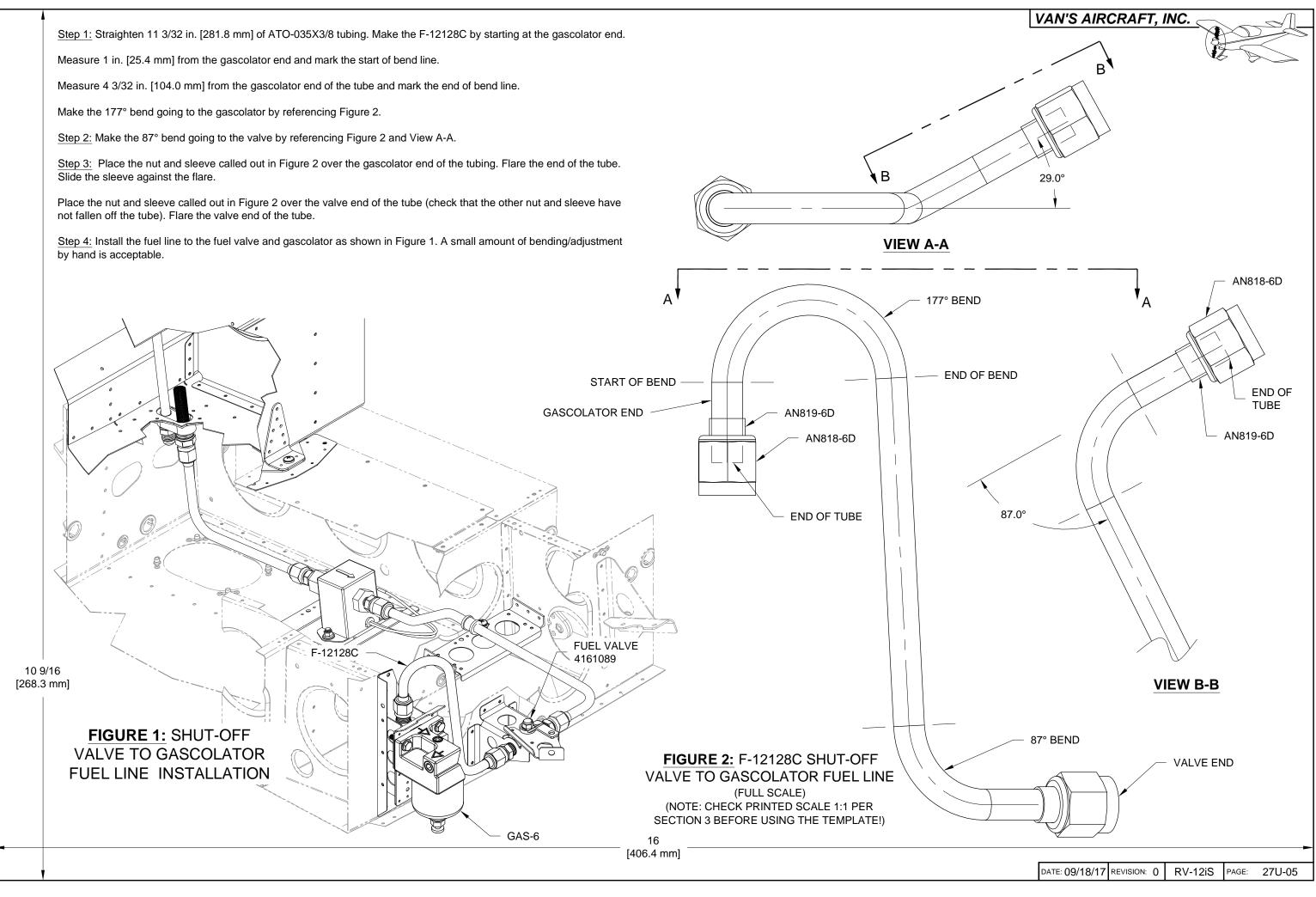
a 1 in. radius to the centerline of the bend. See Figure 1.



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Step 1: Straighten 11 3/32 in. [281.8 mm] of ATO-035X3/8 tubing. Make the F-12128C by starting at the gascolator end.



## VAN'S AIRCRAFT, INC.

<u>Step 1:</u> Final-Drill 5/16 in. [7.9 mm] the holes in three of the F-01276C-1. Install the drilled F-01276C-1's with the oval recess on the right side, as shown in Figure 1.

NOTE: When installing fuel lines it is acceptable to bend a large radius curve by hand to ease installation, then restraighten afterwards.

NOTE: Check the installed fitting depth of the FLF-00017 Fitting against the nominal dimension as shown in the detail view in Figure 1. If the installed fitting depth is more than .063 in. [1.6 mm] different than the nominal dimension shown, adjust the tubing length in Step 2 and the bend location in Step 3 accordingly.

<u>Step 2:</u> Fabricate the F-12128A by straightening 74 7/16 in. [1890.7 mm] of ATO-035X3/8 tube. Start at the aft end of the tube. Place the nut and sleeve over the end of the tube and then flare the end.

Step 3: Make the 88° bend as shown on Page 27U-07, Figure 1.

<u>Step 4:</u> Measure 10 15/16 in. [277.8 mm] from the forward end of the fuel line and the mark start of bend line.

Measure 9 1/2 in. [241.3 mm] from the forward end of the fuel line and mark the end of bend line.

<u>Step 5:</u> Make the two shallow bends in the forward end of the fuel line as shown on Page 27U-07, Figure 2. Feed the fuel line through snap bushings to the firewall.

F-01276-1

F-12128A

<u>Step 6:</u> Make the 82° bend towards the union bulkhead fittings as shown on Page 27U-07, Figure 2.

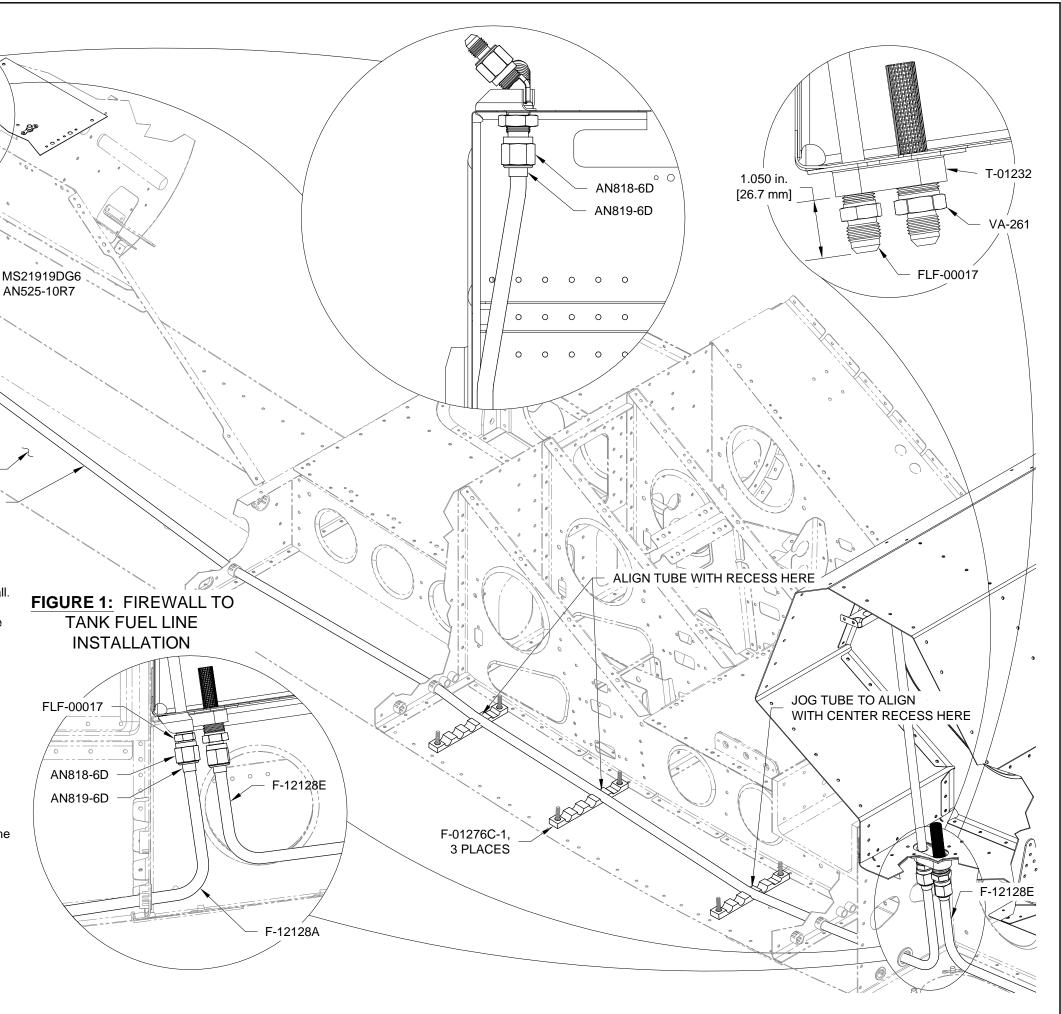
Place the nut and sleeve over the forward end of the tube and then flare the end.

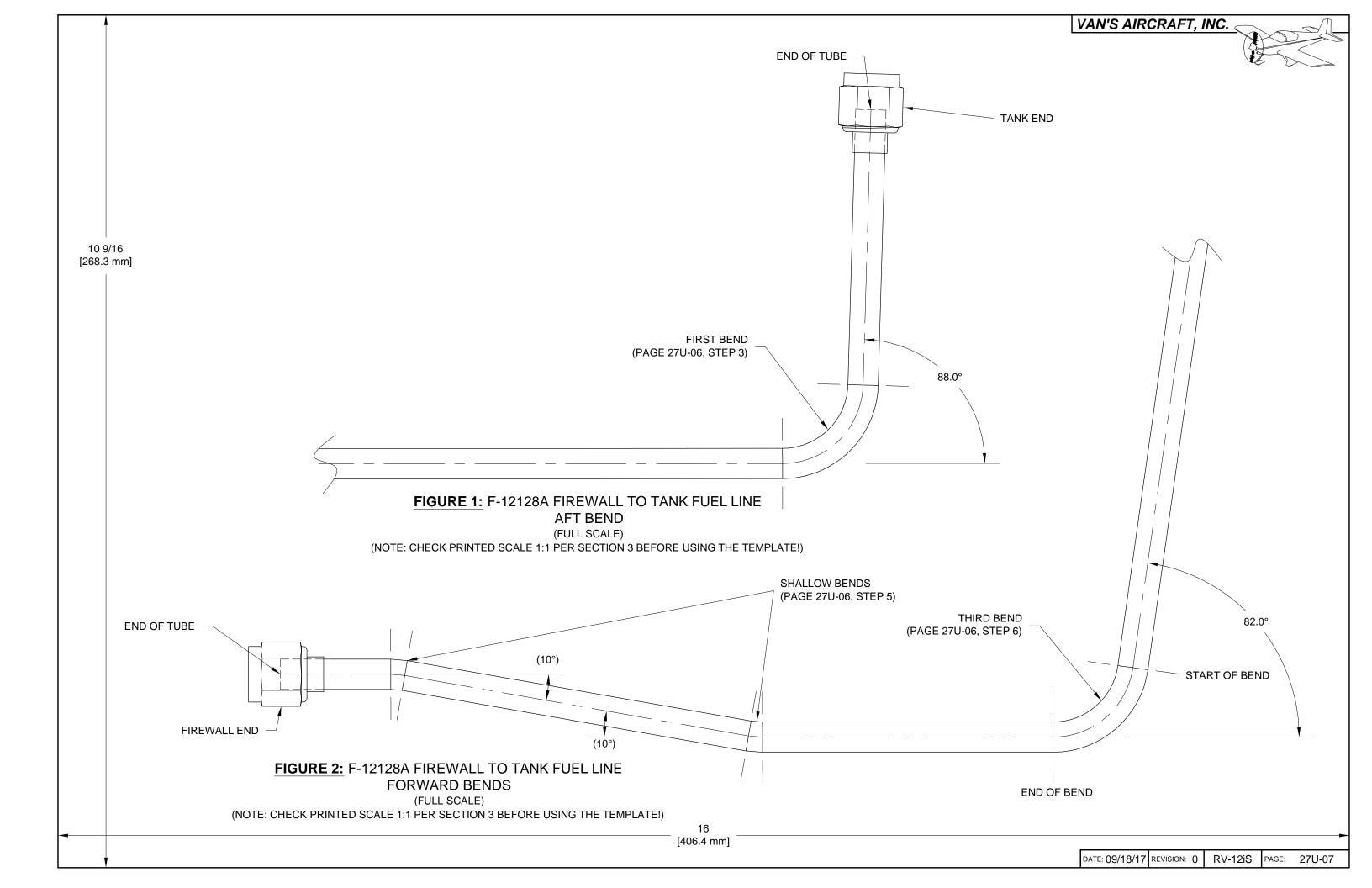
<u>Step 7:</u> Slide the fuel line forward and attach the fuel line to the union bulkhead fitting.

<u>Step 8:</u> Align the fuel line with the firewall clamp as shown in Figure 1. A small amount of bending/adjustment by hand is acceptable. Attach the fuel line to the firewall with the hardware called out in Figure 1.

<u>Step 9:</u> Add slight bends at bulkhead locations as required to align the fuel line with the snap bushings and F-01276C-1 System Blocks. Lay the tube into the recesses of the F-01276C-1's as shown in Figure 1. Add a slight curve to follow the curvature of the F-01276-1 Bottom Skin.

Step 10: Attach the fuel line to FLF-00017 as shown in Figure 1.







<u>Step 1:</u> Install the F-12128E to the fuel pump and fuel strainer as shown in Figure 1.

<u>Step 2:</u> Fabricate the F-12128B by straightening 102 7/8 in. [2613.0 mm] of ATO-035X3/8 tube.

<u>Step 3:</u> Start at the aft end of the fuel line. Make the 83° bend as shown on Page 27U-09, Figure 1.

Make the 75° bend as shown on Page 27U-09, Figure 1, View A-A.

Place the nut and sleeve over the aft end of the fuel line and then flare end.

<u>Step 4:</u> Measure back 9 7/8 in. [250.8 mm] from forward end of the tube and mark the start of bend line.

Measure back 8 7/16 in. [214.3 mm] from the forward end of the tube and mark the end of bend line.

Step 5: Make the two shallow bends as shown on Page 27U-09, Figure 2.

Feed the fuel line through the snap bushings to the firewall.

<u>Step 6:</u> Make the 79° bend towards the union bulkhead fitting in the firewall shelf as shown on Page 27U-09, Figure 2 using the bend lines marked in Step 4. Place the nut and sleeve over the forward end of the fuel line and then flare end.

<u>Step 7:</u> Slide the fuel line forward and attach the fuel line to the union bulkhead fitting as shown in the Detail View in Figure 1.

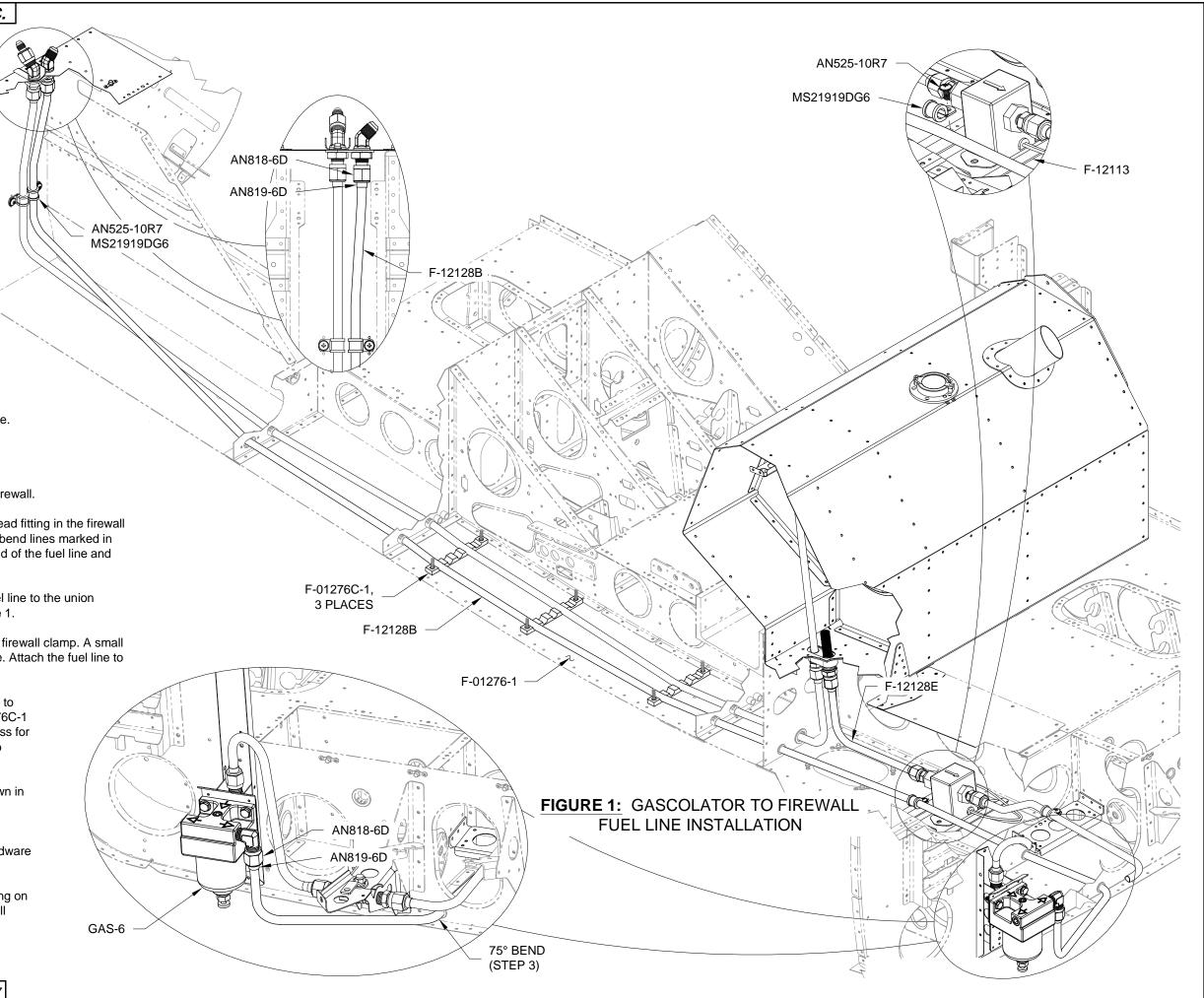
<u>Step 8:</u> Align the forward end of the fuel line with the firewall clamp. A small amount of bending/adjustment by hand is acceptable. Attach the fuel line to the firewall with the hardware called out in Figure 1.

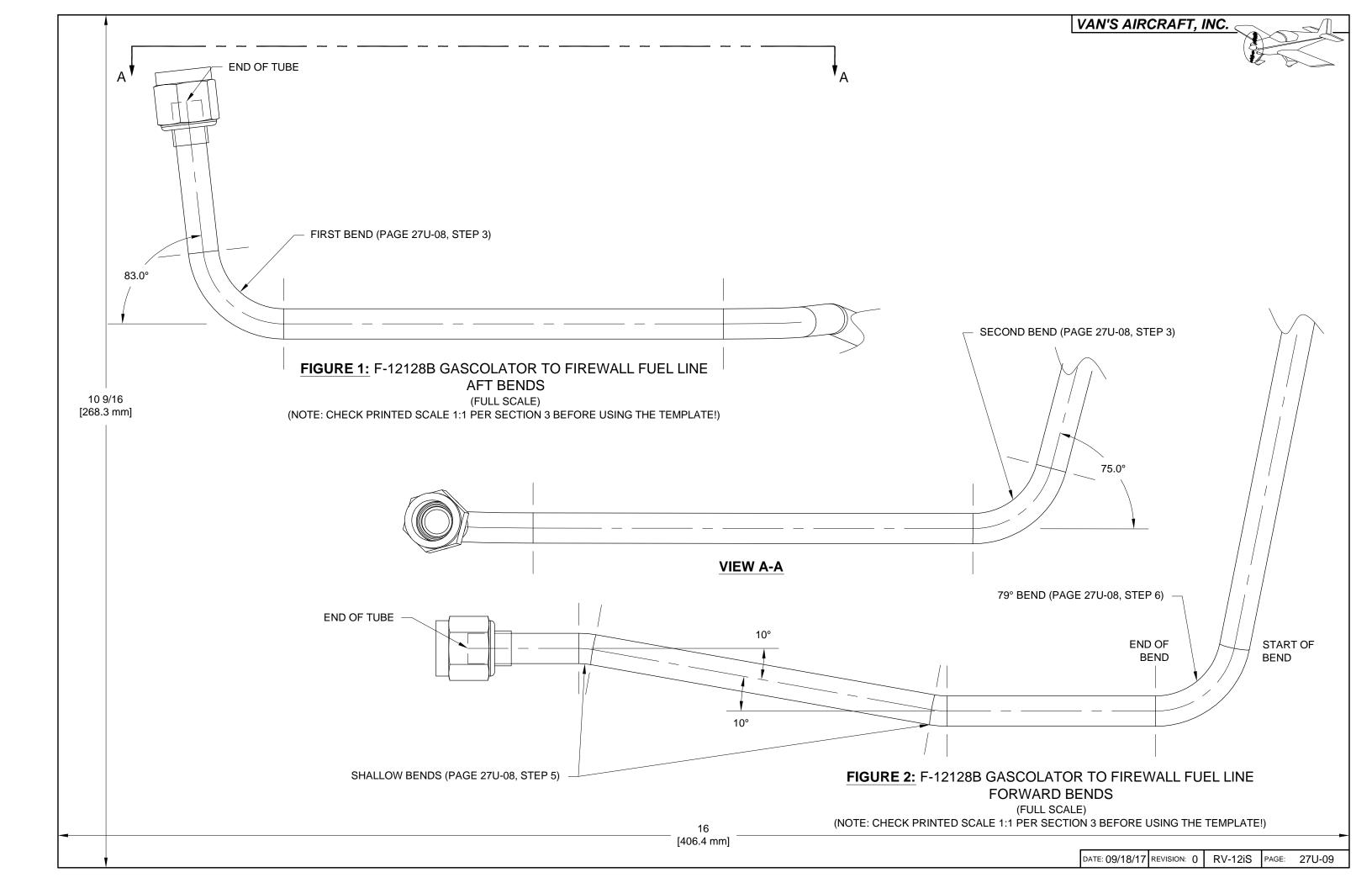
Add slight bends at bulkhead locations as necessary to align the fuel line with the snap bushings and F-01276C-1 Systems Blocks. Lay the tube into the left most recess for a tube in the Systems Blocks adding a slight curve to follow the curvature of the F-01276-1 Bottom Skin.

<u>Step 9:</u> Attach the fuel line to the gascolator as shown in the detail view in Figure 1. A small amount of bending/adjustment by hand is acceptable.

<u>Step 10:</u> Attach the fuel line to the F-12113 with hardware called out in Figure 1.

<u>Step 11:</u> Check all fuel lines for clearance and chaffing on surrounding structure and components. Check that all fittings and connections are tightened.





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