

## SECTION 7

### MUFFLER



Rotax aircraft engines are manufactured and supported by Rotax GmbH of Austria. Read and understand the Rotax manuals completely before starting with the engine installation, as they contain important engine installation, operation and maintenance information. Follow all of the important safety information provided in the Rotax manuals regarding the installation, operation and maintenance of the Rotax engine. Read and understand the Rotax Operator's Manual before starting the engine.

Make sure that your engine is registered with Rotax or an authorized distributor so that the factory warranty is in effect. In the United States, the Rotax distributor is Kodiak Research: <http://www.kodiakbs.com> Contact a Rotax distribution or service partner if you do not understand the instructions or if you have any additional questions. Maintain copies the manuals with the aircraft in case of sale. Obtain current versions of the manuals from the official Rotax website, as well as current service and maintenance information: [www.rotax-aircraft-engines.com](http://www.rotax-aircraft-engines.com)

If a discrepancy arises between the information provided by Rotax and the following pages, the Rotax manuals and/or service information and instructions take precedence. Zenith Aircraft Company does not manufacture or directly support engines.

Alternative engines will affect performance, specifications and flight characteristics of the aircraft. Also, the weight and balance of the aircraft may be adversely affected by alternative engines, and the original fuel system may not be adequate or suitable for some engines. Most alternative engines will require a custom engine mount and engine cowl.



**P/N: MUFF 912S**  
Stainless steel muffler  
assembly.  
Exhaust + 2 front elbow + 2  
rear elbows

**P/N: 938-7905**  
Exhaust Springs qty=8



Install the rear elbows to the body, with 2 springs per side.





Install the rear elbows to the engine.



View of rear left elbow.





Install nuts for elbows with Anti-Seize.

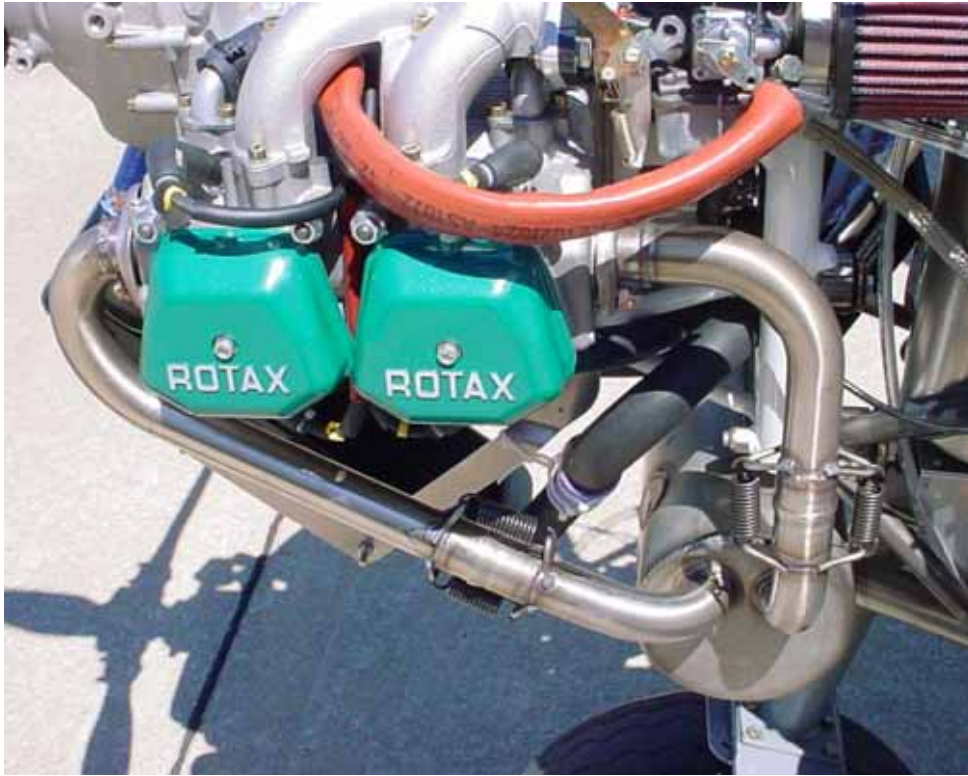
Install the front elbows.



**DETAIL:** Spring holding the ball joint together on rear elbow.

Photo of front left elbow





Left side of engine.



**DETAIL:** Front elbow ball joint.



Right side of engine.



Front view of the radiator between the left and right front elbows.

Looking at right side of the engine.



Tail pipe on left side of nose gear.

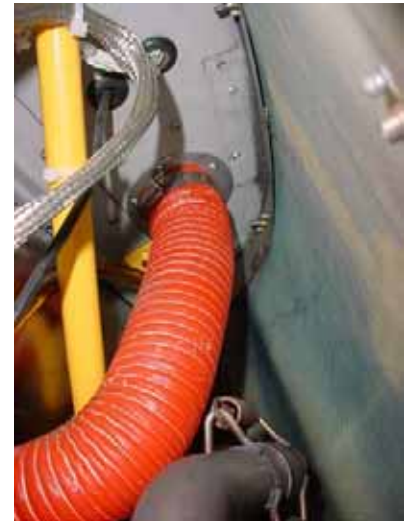
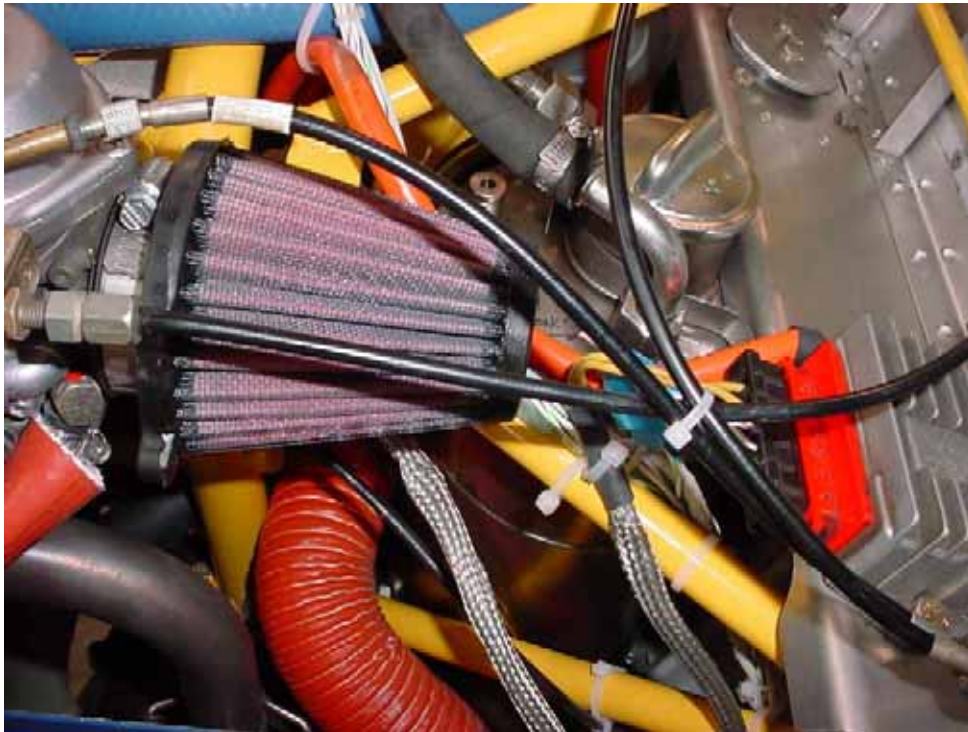
No adjustment or modification is required to the tail pipe.





Cabin heat option.

Heat shroud. Cutout is on the bottom to make room for the tail pipe. Heat shroud goes on the back side of the muffler. Attach shroud to muffler with hose clamps.



**DETAIL:** Scatt hose to flange riveted on firewall

Scatt hose connects the heat shroud to an inlet on the firewall.



**DETAIL:** Scatt hose attached to shroud with hose clamp.

See section 9 of the 912S photo guide for electrical and final installation.