



# SKY DYNAMICS CORPORATION

AEROSPACE DESIGN AND FABRICATION

1900 Skyway Drive  
Moneta, Virginia 24121  
540-297-6754  
FAX: 540-297-2240  
www.skydynamics.com

## LYCOMING SIX CYLINDER COLD AIR INTAKE SYSTEM INSTALLATION INSTRUCTIONS

1/ The intake plenum is supported to sump with four (4) 5/16" N.C. studs that are used for standard fuel injector location. Note: If not factory-assembled, these studs will have to be removed and drilled for safety wire. Castle nuts (5/16"-18) are supplied for mounting the plenum to the sump floor.

2/ The intake tubes are number stamped on the underside of the flange face per their respective cylinders. One gasket and one silicon o-ring are used to complete the seal at the cylinder port. Twelve (12) 1/4"x1" bolts are supplied for attaching the intake tube flanges to the cylinder port. Note: no. 2 intake tube is close to old intake port. Existing port sleeve will have to be bent or removed for clearance.

3/ The intake tubes use a silicon O-ring to seal the ID of the intake tube to the plenum outlet port tube. These slip-fit joints require lubrication to easily slide onto the plenum port tube. Care must be taken when sliding the intake tubes onto the plenum ports as the O-ring can squeeze out of the tube's O-ring groove and be pinched or cut leading to an intake pressure leak.

4/ After assembling the intake tubes into place and prior to mounting the fuel servo, use a small inspection mirror and flashlight to view the inside of the plenum ports. Check to see if any O-rings have become dislodged during assembly.

5/ For tight cowl situations, the fuel servo can be rotated but linkages will have to be modified accordingly.

6/ An inlet angle adapter is available for applications that require the fuel servo to be placed at an angle that is parallel to the engine, rather than the 15 degree angle of the plenum's servo mounting face.

7/ With installation complete, seal the fuel servo air inlet and perform a pressure test on the intake assembly using compressed air to show if any leaks exist.

8/ If you require additional O-rings or gaskets for your installation in the future, please contact us.

Please feel free to call or email us with any installation questions:

Phone: 1 (540) 297-6754

Email: sales@skydynamics.com