

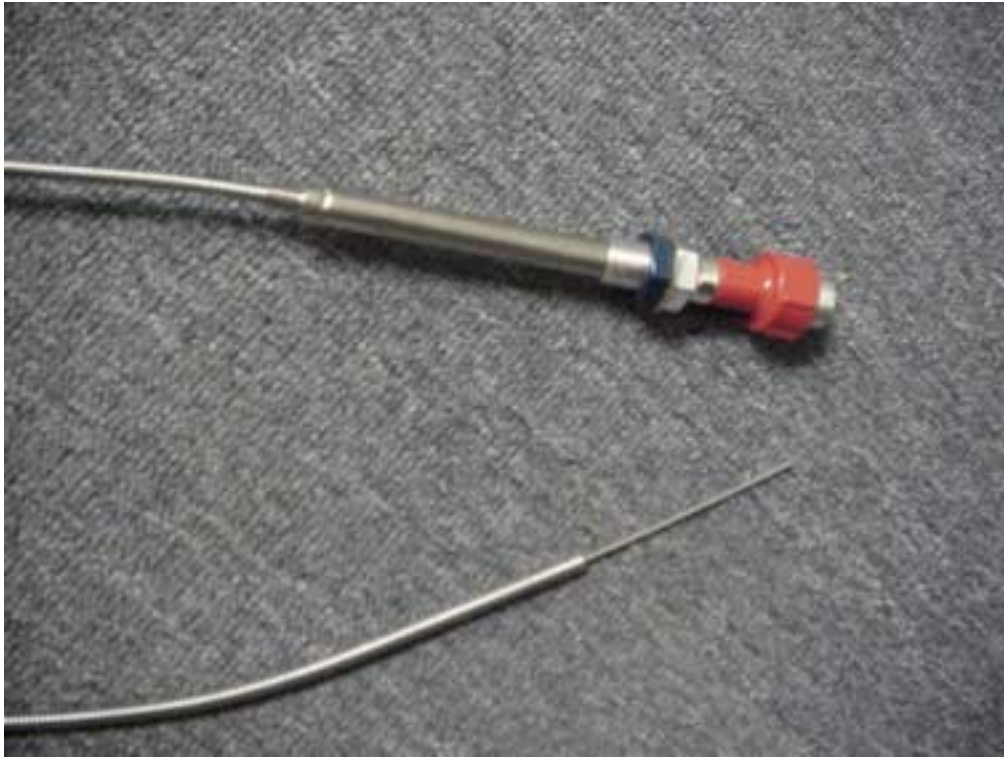
# STOL CH 801

## LYCOMING O-360 Engine Installation

### SECTION 5a Mixture Control



Mixture Red Knob Vernier Control



Vernier control  
**P/N 05-08160**  
Length=60 inches

**SOLID WIRE END**

.078" diameter stainless steel wire core.



Remove the nut and  
Insert cable from the front  
side of the instrument  
panel

Note: placard is for Canadian registered aircraft.



Cable routing to the left.

Routing through firewall  
Above the upper bearing  
then to the left

Note: cable at the top is for the RPM gauge; the plate with the 4 rivets is to cover the larger hole to get the end for the mechanical tachometer through the firewall.



Cable routing down to  
carb. Behind the fuel line.

Note the clamp DG-4 on  
the firewall.



Loop-type cushioned  
aluminum clamp  
**MS21919-DG4**  
Qty = 1

MACHINE SCREW  
**AN525-10R8**  
With washers & self  
locking nut  
Qty=1

Note: the part number is stamped on the clamp.



Clamp screwed to firewall





Cable on the inside of the cross tube on the left side of the engine mount

Note: the plate held in place with 2 rivets on the Nose Gear strut is an identification plate, not supplied on kit parts.



Double clamps on cable housing

Viewed from front right looking forwards

Note: at the bottom of the photo is the cable for the carb heat box.



Loop-type cushioned  
aluminum clamp  
**AN742-D4**  
Qty = 1

Loop-type cushioned  
aluminum clamp  
**MS21919-DG12**  
Qty = 1

Bolt with self locking nut  
and washer  
**AN3-5A**  
Qty=1



Bolt the two clamps  
together. Check for a  
tight fit.

Viewed from left side



**AN4-5A bolt**  
With 5/64" hole drill  
through the shaft

Qty=1



The Nylon self-locking nut  
locks down on the washer  
to keep the wire in place.

The second washer  
between the throttle arm  
and the wire can turn  
freely



Lean  
(Control pulled out)

The travel of the lever arm is determined by the stops

Bend the end of the cable



Mixture rich  
(Control push in)

Notice the stop at the bottom of the lever arm with the carb body.



**\*\*\*MIXTURE CONTROL \*\*\***

**Section 5a**

<b>P/N</b>	<b>DESCRIPTION</b>	<b>QTY</b>
05-08160	MIXTURE CABLE 5 FT VERNIER CONTROL	1
MS21919-DG4	LOOP-TYPE CUSHIONED ALUMINUM CLAMP (to secure the mixture cable to the firewall)	1
AN525-10R8	MACHINE SCREW W/ SL NUT & WASHERS (for clamp DG4 to firewall)	1
AN742-D4	ALUMINUM CLAMP (fits over mixture control cable housing & bolted to the clamp DG12)	1
MS21919-DG12	LOOP-TYPE CUSHIONED ALUMINUM CLAMP (fits over the engine mount tube and bolted to clamp D4)	1
AN3-5A	BOLT W/ SL NUT & WASHER (join clamps D4 & DG12)	1
AN4-5A DRILLED	SHAFT DRILLED WITH 5/64" HOLE W/ SL NUT & WASHERS (bolt-type terminal to connect end of mixture cable to crab.)	1