

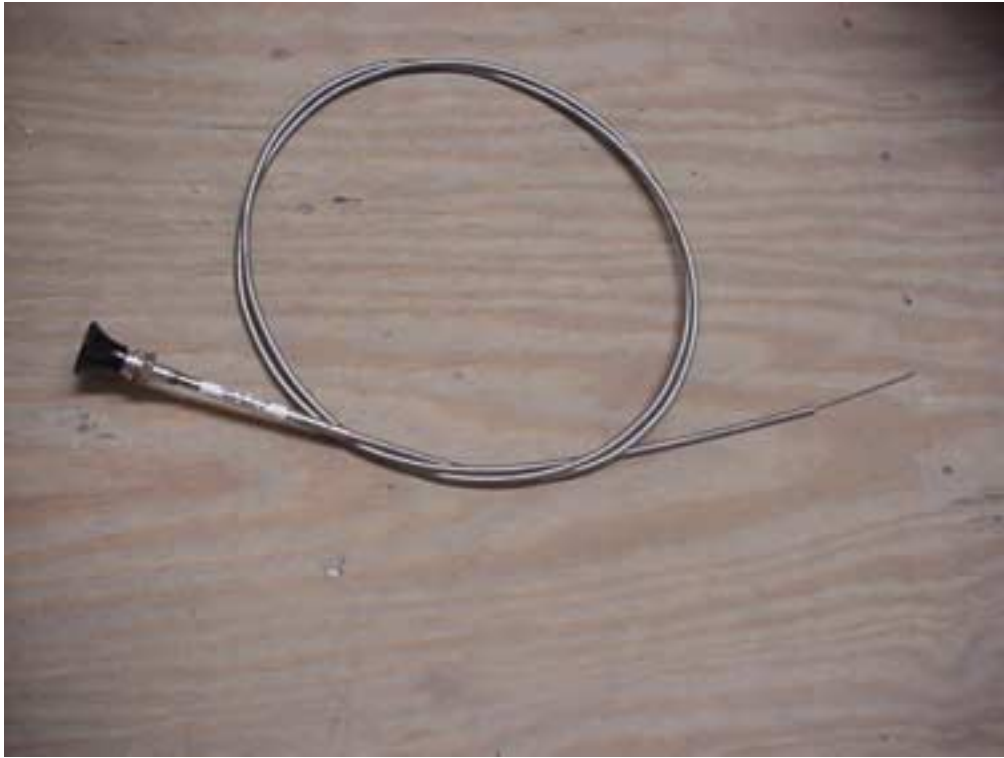
STOL CH 801

LYCOMING O-360 Engine Installation

SECTION 4 Carburetor Heat Box



Carb. Heat Box, hole at the bottom is the hot air exit when carb heat is not used.



Push Pull cable
P/N 05-14084

Qty = 1
Length=7ft.

Cable "rolled" for shipping



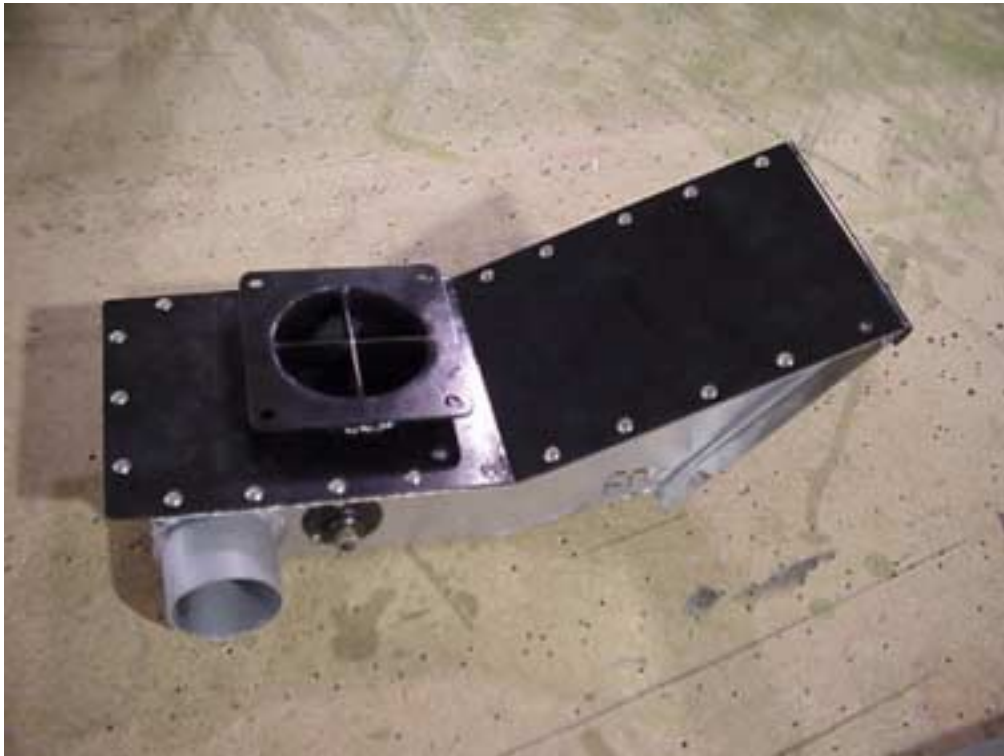
Inside of bottom cowl
Baffle tape is added after
the air box is installed.

0360 bottom cowl with air-intake cutout.



Paper Gasket

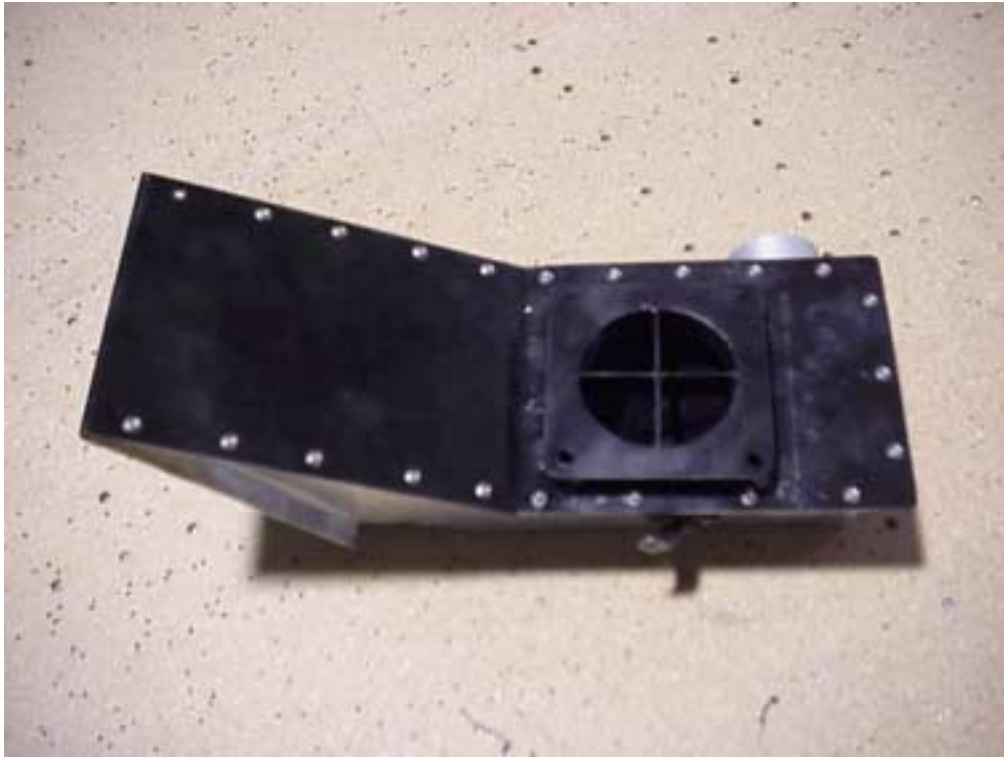
P/N 360-PG
Qty = 1



CARB HEAT BOX
P/N 360-CHB

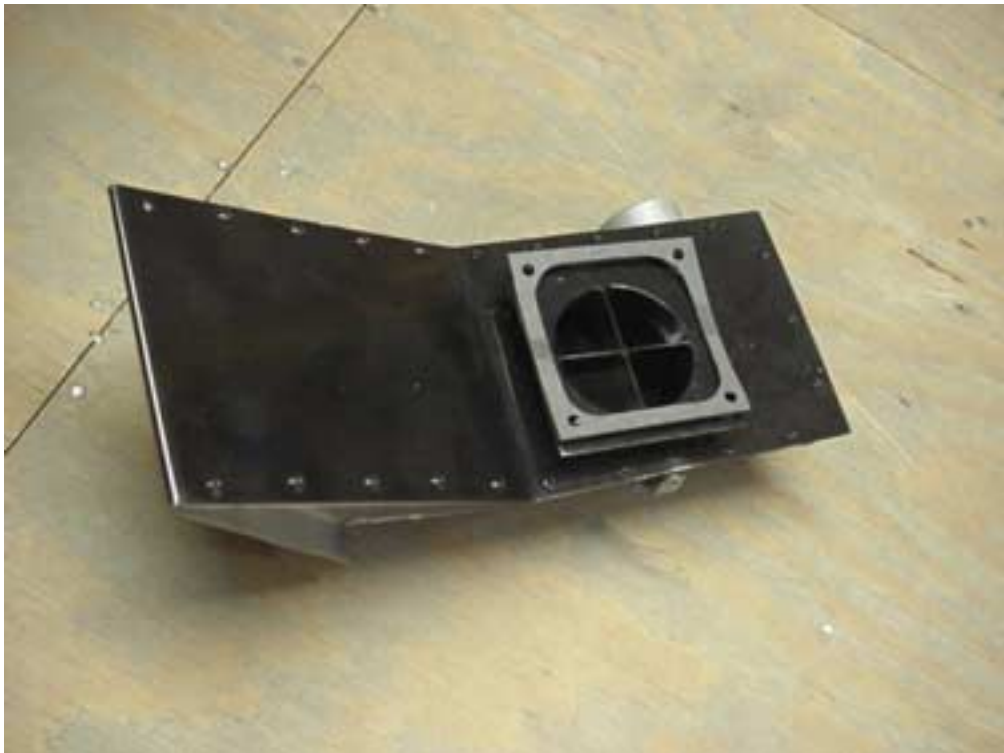
Unit as supplied
Qty=1

Hot air inlet on right side



NOTE: THE CROSS-
WELDED IN THE NECK
IS TO REDUCE
TURBULENCE FOR
MORE CONSISTENT
AIRFLOW.

Lever control on left side.



The Gasket goes
between carb heat box
and carburetor



Engine bolts

MS20074-04-03
QTY =4



**IMPORTANT: BEFORE
INSTALLATION, CHECK
THE DEPTH OF THE
TAPED HOLES ON THE
CARBURATOR;
COMPARE IT TO THE
LENGTH OF THE
BOLTS.**

Bolt the carb heat box to
the carb.

The carburetor assembly shown in this photo is actually for the 0235 engine!



Safety wire



Wire is shown braided between the bolts.



Insert the cable through the front side of the instrument panel. Tighten the nut.

CH801 instrument panel, carb heat push pull knob located to the right of the VSI, to the left of the column of modular Mitchell gauges.
NOTE: A BLUE DOT OR STICKER CAN BE PAINTED OR GLUED ON THE KNOB FOR EASIER COLOR RECOGNITION!



Throttle cable to the left of the mixture control cable and below the RPM cable.



The cable housing is secured to the carb heat box



CABLE SUPPORT

PLAIN CLAMP
AN742-D3

BOLT
AN3-4A

Qty=1

Drill a 3/16" hole in the top left aft corner of the carb box for the AN3-4A bolt to hold the Plain Clamp AN742-D3. Insert the cable housing through the clamp and tighten the bolt.



BOLT TYPE TERMINAL
Drill bolt with SL nut and 2
washers

P/N 05-16100

QTY=1



Close the flap (outside
air) and Insert the BOLT
TYPE TERMINAL
05-16100

Through the 3/16" hole
at the end of the lever
arm, the head is
towards the carb.

Add a washer and
insert the end of the
solid wire through the
drilled hole in the BOLT
TYPE TERMINAL.
Tighten SL. Nut.

Check that the bolts turns
on the lever arm when the
push/pull cable is pulled.

NOTE: bend the end of the cable

COMMENT: photo is not of the carb heat box supplied.



**BRACKET AIR FILTER
& ELEMENT &
MOUNTING
HARDWARE
P/N BA-4106**



HEIGHT ADJUSTMENT
First tape the air filter mounting bracket to the front of the carb heat box. Then install the cowl to check the alignment with the front opening in the cowl.

Mark and drill the holes in the carb-box for the 4 bolts (bolts supplied with the filter assembly)

COMMENT: It is normal to have some space between the front of the filter and the opening in the lower cowl. The gap will be sealed as indicated in the following photos.



Some cutting may be required to even out the opening on the cowl, hand snips can be used to remove larger area, use a coarse file to finish the edges.

Rivet the baffle strip to the cowl to seal the gap between the cowl and the air filter.

RECOMMEND: Use countersunk rivets: with a larger drill bit, countersink the hole in the fiberglass, use a flat nose piece on the riveter head and use the standard A4 rivets. Cover the rivet head with body filler and file smooth.



Before pulling the rivet insert a washer on top of the baffle strip; the washer will keep the rivet from pulling through the baffle strip.

FLAT WASHERS
90107A005
1/8" ID
5/16" OD
(See section 1A)

CHECK: the cowl does not touch or make direct contact with the carb heat box or filter attachment bracket.

NOTE: If necessary, staple the corner of the baffle together (or use a piece of safety wire)



LOOP-TYPE CUSHIONED
ALUMINUM CLAMP
MS21919-DG12

BOLT, SL NUT, WASHER
AN3-4A

Qty=1



Hole at the front top right
corner of the carb heat
box has a rivet left out.

This hole can be used to
secure a LOOP-TYPE
CUSHIONED ALUMINUM
CLAMP MS21919-DG12
(With a AN3-4A bolt) for
the oil line.

Oil line support across the front of the engine to keep the line away from the
cross over muffler system.

*****CARB HEAT BOX***
SECTION 4**

P/N	DESCRIPTION	QTY
360-CHB	CARBURETOR HEAT BOX	1
BA-4106	BRACKET AIR FILTER & ELEMENT	1
05-14084	CARB HEAT CONTROL CABLE 7FT Ratchet Control	1
MS20074-04-03	ENGINE BOLT (DRILLED HEAD COURSE THREADS ¼-20 (carb box to carburetor)	4
05-16100	BOLT TYPE TERMINAL AN3-5A Bolt with drill shank, SL nuts, 2 washers (cable to lever)	1
360-PG	PAPER GASKET (between carb and carb heat box)	1
AN742-D3	PLAIN CLAMP (to hold throttle cable housing to carb heat box)	1
AN3-4A	BOLT, SL NUT, WASHERS (for Clamps to carb heat box)	2
MS21919-DG12	LOOP-TYPE CUSHIONED ALUMINUM CLAMP (for oil line to the front of the car-box)	1