

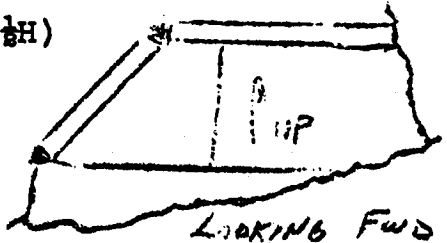
MOONEY AIRCRAFT INC.
SERVICE LETTER 20-37 (CAA APPROVED)

DATE: 7-28-58
SUBJECT: Rework of carburetor air box installation.
MODELS AFFECTED: M20A Serial Number 1201 thru 1275.
TIME OF COMPLIANCE: Immediately
INTRODUCTION:

There have been several cases (on M20A aircraft only) in which the cross vanes in the neck of the carburetor air box (PN 6235) have cracked and broken off. This failure can cause a power loss if the vanes are drawn into the carburetor opening. In these cases it is also reported that the top of the carburetor air box cracked around the neck. In view of these failures, it is necessary to accomplish the rework outlined below.

REWORK INSTRUCTIONS:

- 1) Remove carburetor air box and inspect for cracks on outside. Repair as necessary by welding.
- 2) Add $1\frac{1}{2}$ x $1\frac{3}{8}$ x .125 (2) weldable (2 or 3S $\frac{1}{2}$ H) aluminum brace to each side at fore and aft center line of neck as shown to stiffen box (accomp. at factory Ser. 1258 & on)
- 3) Remove cross vanes (2) in neck by cutting off at inside surface of tube
- 4) Shorten $\frac{3}{8}$ O.D. Alum. fuel overflow drain tube on bottom of air box $\frac{1}{2}$ inch to remove bind at cowl (accomp. at factory Ser. 1258 and On)
- 5) Enlarge fuel overflow drain tube hole to $1\frac{1}{4}$ Diam. and grommet (in cowl) To remove bind (accomp. at factory Ser. 1261 and on).



ENCLOSURE: $1\frac{1}{2}$ x $1\frac{3}{8}$ x .125 (2) Aluminum Brace.