

MOONEY AIRCRAFT, INC.

SERVICE LETTER 20-40, Rev. A
(This Service Letter & Rev. A are FAA Approved)

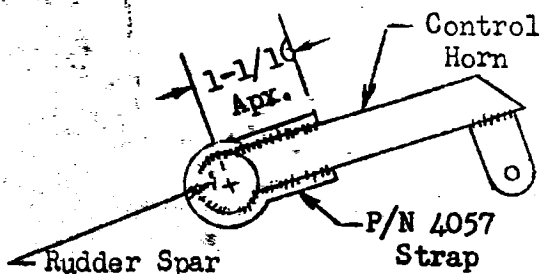
SERVICE BULLETIN NA 20-40

DATE: 9-5-58
SUBJECT: Kit - Rudder Horn Reinforcing Strap
MODELS AFFECTED: M20, Serials 1002-1126
TIME OF COMPLIANCE: As soon as possible
PARTS LIST: P/N 4057 (1) Reinforcing Strap
ENCLOSURE: Compliance Card

Several cases have been reported in which the rudder control horn broke at the point where it is attached to the rudder spar. It is therefore necessary that the following modification be accomplished.

Instructions: This modification may be accomplished without removal of rudder from airplane.

1. Remove tail stinger assembly as follows:
 - (a) Set trim aft.
 - (b) Remove fairing strips between tail cone and stinger.
 - (c) Disconnect tail light wire.
 - (d) Detach stinger from tail truss at 3 points fwd and 1 point aft.
2. Remove paint from subject joint and inspect for cracks.
3. Protect fabric and structure near rudder horn with wet asbestos sheet.
4. Reweld joint if cracks are present and weld P/N 4057 in place as shown in sketch.



Tack P/N 4057 aft side and apply heat to form strap in place at center line of control horn. Attach strap to rudder spar and control horn with weld along full length of strap top and bottom. Do not weld end of strap.

View looking up
at rudder