



This Service Letter should be coordinated with Service Letter 20-88

SUBJECT: Main Landing Gear Wheel Well Rework
MODELS AFFECTED: M20, M20A, Serial Numbers 1002 thru 1645
TIME OF COMPLIANCE: Next 100 Hour Inspection or not later than May 15, 1962

This Service Letter reidentified as
Service Bulletin M 20-89
per Service Instruction M20-15.

INTRODUCTION:

Additional cases of unwanted gear retraction during the past year have disclosed the fact that the main gear tire sometimes drags on the skin at the edge of the wheel well cutout. This results in undue effort being required to lower the gear and can, in extreme cases, cause warpage or failure of retraction linkage parts. This Service Letter is necessary to prevent further occurrences.

INSTRUCTIONS:

Mooney Service Letters 20-34 and 20-51 give instructions for inspection and corrective action necessary on the shock stack absorber units and shock retainers, respectively. It is necessary at this time to comply again with these instructions for inspection and to perform the recommended rework if necessary. (Additional copies of these Service Letters are available upon request.)

Mooney Service Letter 20-59 gave instructions for increasing the dimensions of the wheel well cutouts. The dimensions specified in the sketch below should be used rather than the ones stated in Service Letter 20-59. In addition to the cutout increase, it is necessary to add the blocks shown in the sketch. These blocks will prevent the tire from hanging should the shock discs, retainer collar, or bolt fail.

In installing the wood blocks, a medium file should be used to remove the dope and varnish from the spar and rib. Use Borden's Cascophen RS-216 (or RS-224) or Weldwood to glue the blocks and clamp for twenty-four hours at 70° F.

Interior surfaces in the wheel well area should be given two coats of spar varnish followed by a coat of aluminized sealer mixed in the following proportions: sixteen ounces of aluminum paste or one half pound of aluminum powder to each gallon of spar varnish.

The cutout area must be recovered with fabric tape, doped with butyrate dope, and repainted with matching dope color.

NOTE: Oversize tires and recaps are not recommended for use on Mooney Mark 20 type aircraft.

S.L. KIT 20-89

The cost of this kit is \$4.00 net (which is our cost) and can be shipped immediately upon receipt of a firm order at:

Mooney Aircraft, Inc.
Spare Parts Department
P. O. Box 72
Kerrville, Texas

Please enclose serial and registration number of your aircraft with order. Also, complete the enclosed compliance card upon completion of work and return to Mooney Aircraft, Inc. for our aircraft records.

PARTS LIST:

- (1) 2147-7 Block
- (1) 2147-8 Block
- (1) 2148-7 Block
- (1) 2148-8 Block

