

THIS SERVICE BULLETIN IS FAA APPROVED FOR ENGINEERING DESIGN

SERVICE BULLETIN M20-264
ISSUE DATE: 1 February, 1998

SUBJECT: Aileron, Center, Control Links -- Inspection

MODELS/S/N M20B, M20C, M20D, M20E, M20F, M20G -- ALL SERIAL NUMBERS
AFFECTED: M20J -- S/N 24-0001 THRU 24-3359
M20K -- S/N 25-0001 THRU 25-1999
M20L -- ALL SERIAL NUMBERS
M20M -- S/N 27-0001 THRU 27-0197
M20R -- S/N 29-0001 THRU 29-0042

TIME OF

COMPLIANCE: Within next 25 hours of operation and in accordance with NOTE 2 below.

INTRODUCTION:

There have been reports of a crack adjacent to the weld area of the LH aileron, center control link, P/N 730005-1. Since the LH & RH are very similar, it is requested that an inspection of both of these control links be completed in accordance with the instructions shown below.

The part numbers to be inspected are as follows:

M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K 730005-1 (LH) & 730006-000 (RH)
M20L, M20M 730051-501 (LH) & 730052-501 (RH)

INSTRUCTIONS:

1. Remove lower belly skin to gain access to underside of aircraft:
 - Aluminum Belly Skin aircraft -- 1st skin aft of nose wheel well
 - Smooth fiberglass belly aircraft -- Forward fiberglass skin

NOTE 1

If during a visual inspection it is determined that either control link has a reinforcing gusset at the 2nd 90° angle joint from Heim bearing, (link has been replaced), no further inspection is required for that control link. If both links have been replaced, reassemble belly skin and proceed to step 9 thru 11.

2. If a visual inspection determines that there are no reinforcing gussets, remove LH & RH aileron, center, control links. Note location of spacer between LH & RH control links at attach bolt. Remove paint from the area to be inspected.
3. When paint and/or any foreign material have been removed from the weld area of the 2nd 90° angle joint (2nd from Heim bearing), conduct a Magnetic Particle Inspection of each link on that 2nd 90° angle joint.
4. Carefully inspect the results of the Magnetic Particle Inspection to determine if any discrepancy exists at the weld area, either in the weld or in the adjacent tube material.
5. If no discrepancies exist, clean area, prime and repaint area (epoxy paint recommended).
6. Reinstall the existing good control links.

NOTE 2

If existing good control links are not replaced at this time, repetitive inspections, in accordance with this SB, are required at each annual or 100 hour inspection thereafter.

7. If discrepancies are found, proceed to PARTS LIST below.
8. Connect attaching bolts, spacer, nuts and washers in accordance with AC43-13 or Mooney Service & Maintenance Manual instructions. Lubricate Heim bearings with Teflon spray lubricant per S & M.
9. Verify aileron rigging in accordance with the proper section of the applicable model's S & M manual.
10. When rigging is verified to be correct, reinstall aircraft aluminum belly skin or fiberglass skin.

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11. Complete Logbook entry and return aircraft to service.

WARRANTY: Up to 2.0 hours labor and cost of replacement parts will be credited to the Mooney Service Center for inspection and replacement of subject aileron control links in accordance with the instructions of this SB if aircraft is still under warranty and warranty claim is received within 180 days of date of this SB.

Labor and/or replacement parts (if needed) **will not be covered** under Mooney Aircraft Corporation warranty policy for affected aircraft that are beyond warranty agreement.

REFERENCE DATA: N/A

PARTS LIST:

KIT P/N SB M20-264-1

MODEL's	DESCRIPTION	P/N	QTY
M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K	LINK, AILERON CONTROL, LH	730005-1	1
	LINK, AILERON CONTROL, RH	730006-000	1

KIT P/N SB M20-264-2

M20L, M20M, M20R	LINK, AILERON CONTROL, LH	730051-501	1
	LINK, AILERON CONTROL, RH	730052-501	1

FIGURES/
TABLES: N/A