

FIELD SERVICE BULLETIN

Navion



RYAN AERONAUTICAL COMPANY, LINDBERGH FIELD, SAN DIEGO 12, CALIFORNIA

FIELD SERVICE BULLETIN NO. 18
SEPTEMBER 26, 1952

MANDATORY

TO: ALL NAVION DISTRIBUTORS, DEALERS AND OWNERS

SUBJECT: AILERON CONTROL CHAIN JAMMING

EFFECTIVITY: ALL NAVION AIRCRAFT

An instance of aileron control jamming has been reported on a Navion airplane. The jam occurred during an instruction flight. Careful analysis of the chain installation on the control column has revealed that a jam can occur when the aileron control cables are rigged to less than the required (30 lbs.) tension and a quick reversal of forces is applied to the control wheel. It has also been determined that a jam may occur by opposite rotation of the control wheels such as might occur should the student fight the instructor's controls.

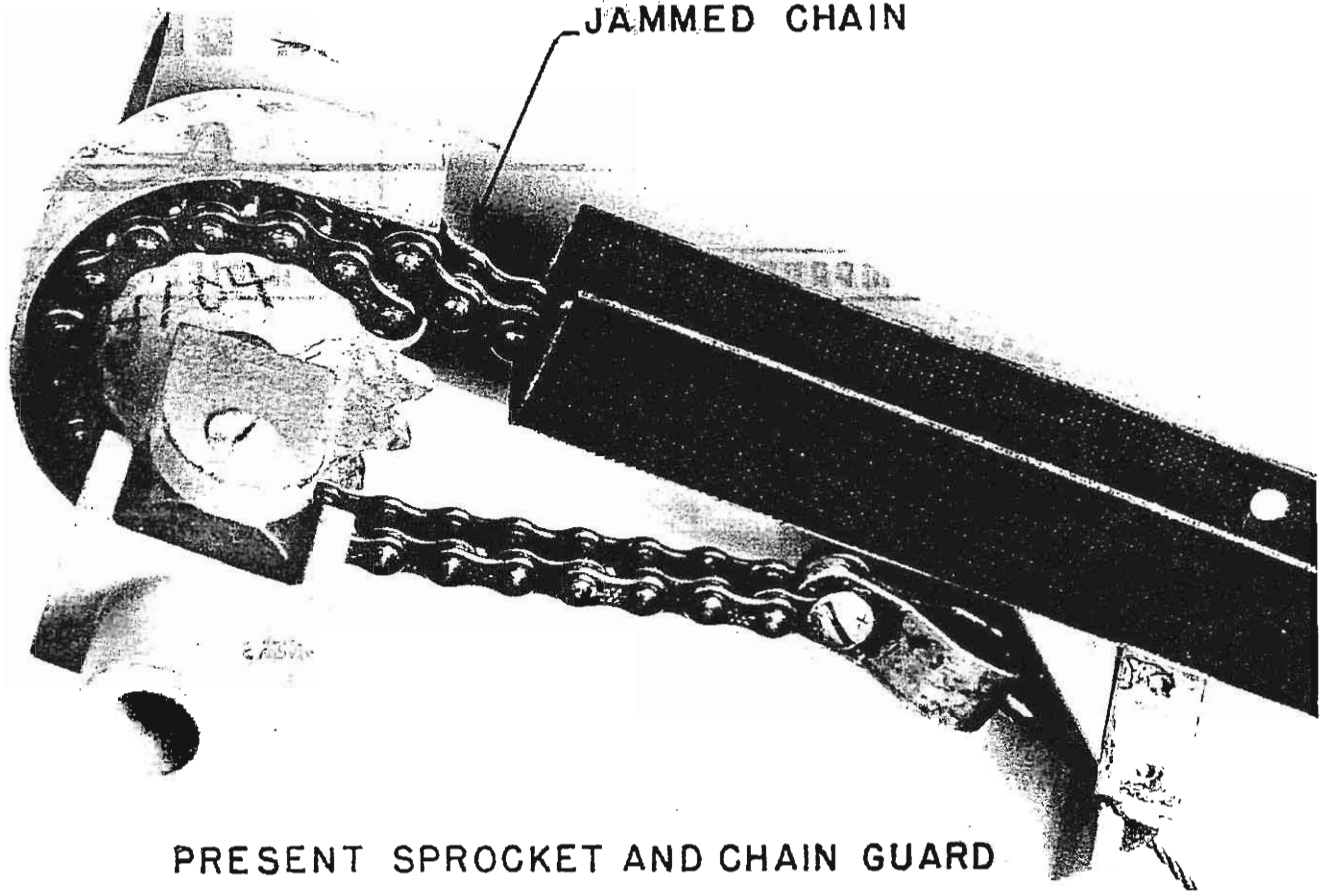
Should a jam occur on your airplane a reversal of pressure on the control wheel and a less violent return of the wheel to neutral will release the jam.

The illustrations on the opposite side of this sheet show the present sprocket and chain guard in the jammed position and a very simple mandatory rework of the guard to allow the chain to go slack between the guard and the sprocket during the maneuvers described above.

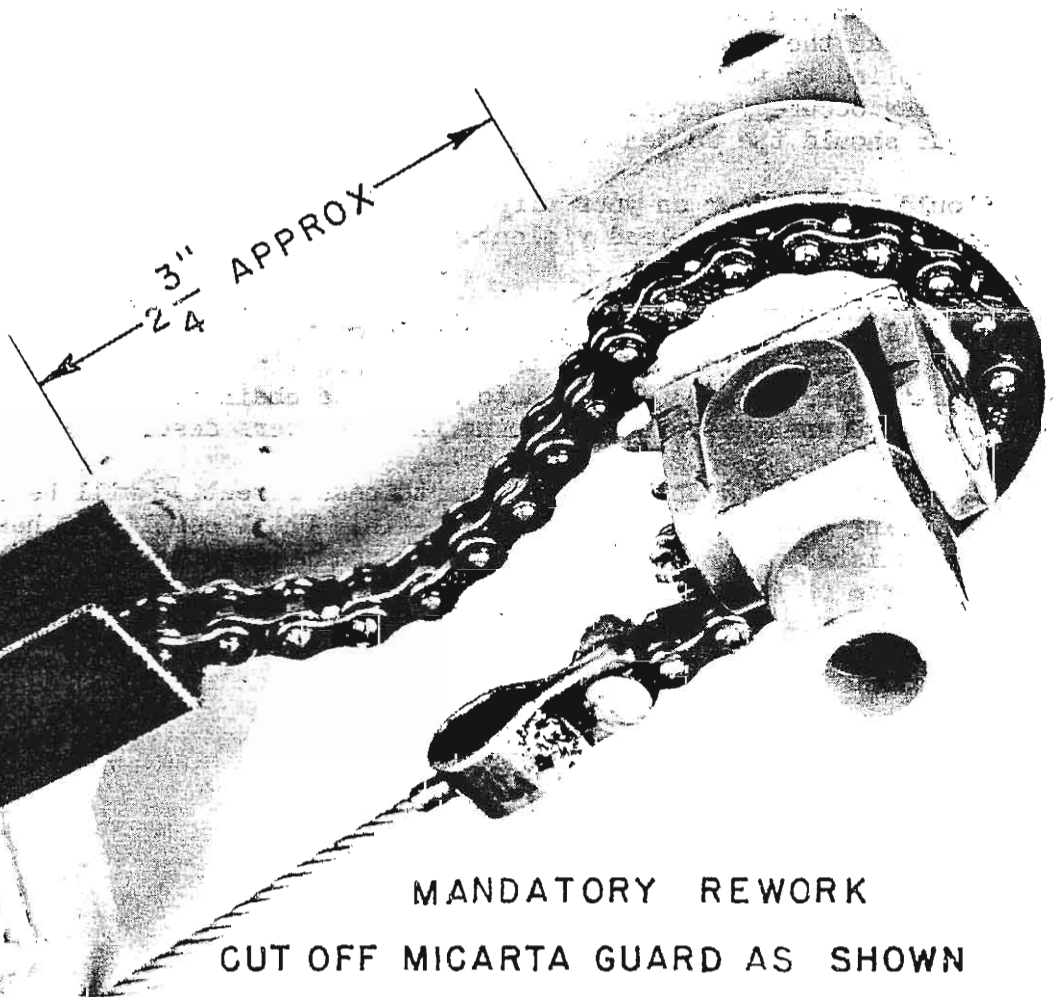
It is anticipated that a CAA Airworthiness Directive will be issued requiring compliance with this bulletin. Until compliance has been accomplished, careful checking of the control system rigging and avoidance of maneuvers that cause violent reversal of the control wheel are recommended.

(OVER)

JAMMED CHAIN



PRESENT SPROCKET AND CHAIN GUARD



MANDATORY REWORK

CUT OFF MICARTA GUARD AS SHOWN