SERVICE BULLETIN   SB026-1195

Subject: Lancair 320/360 flap track attachments
Date: 1st November, 1995
Ref:
Pages: 1
Status: Inspection Required

Background:
The standard flap drive system for 320/360 uses a bellcrank to drive the short push rod which attaches to the flap. With a reported case of a bent steel push rod (original size of .25" dia.), we've identified several causes for this which include: full flap deployment above allowable speeds, misalignment of drive bellcranks in stub wings which result in a rod end bearing bind with deployment, deployment beyond the recommended 40 degree deflection limits which also creates a bind at the rod end bearings. In an effort to tolerate more builder variation we have switched to a larger (.312" dia.) rod with accompanying rod end bearings.
Replacement parts are: (2) 5/16" Push rod PN FL-ll
                        (4) Rod end bearings PN F35-14
                        (4) Check Nuts PN AN316-5

Action:
It's recommended that you inspect your flap drive assembly for freedom of travel, lack of bind and proper deflections. In addition, if you do not have the larger push rod assemblies, it is recommended that you switch to them

Checking for Push Rod Bind:
Run the flaps to both limits and check for any signs of a push rod bind. To do so, run the flaps fully "down", remove the attach bolt at the ~ and note that the push rod remains in that same bolt hole alignment with no side or vertical force (bind) trying to move it either up or down. If a side or vertical force is noted, then a realignment of the stub wing bell crank may be required. (ie. if the push rod springs upward or downward when you remove the AN3 attach bolt in the flap, then a bind condition exists and a side load would be placed on the rod thus causing potential bending stress. The push rod should remain freely in alignment with the flap push rod attach bracket.) If a bind and resultant bending force is present, the aircraft should not be flown until such condition is corrected

SEE CHPT. 10-27

RT. STUB WING FLAP BELLCRANK SHOWN HERE

PUSH ROD/ROD END BRGS.

TEMP. REMOVE THIS BOLT TO CHECK ALIGNMENT OF PUSH ROD