



SERVICE BULLETIN

FUJI HEAVY INDUSTRIES LTD

FAS 040

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- 1 SUBJECT Addition of shim to Nose Landing Gear Fitting.
- 2 AIRCRAFT AFFECTED All FA-200 series.
- 3 PRIORITY Desirable.
- 4 REASON In order to establish adjustment procedure to provide smooth operation of Nose landing gear steering system.
- 5 DESCRIPTION Shim to be bonded to Nose landing gear fitting.
- 6 ACCOMPLISHMENT Optional.
- 7 APPROVAL Not Applicable.
- 8 PARTS REQUIRED The following parts are required to perform the rework.

PART NO.	PART NAME	QTY
MS24665-285	PIN, COTTER	1
MS24665-300	PIN, COTTER	1
MS24665-161	PIN, COTTER	1
MS24665-132	PIN, COTTER	1
MS209950 32	WIRE, LOCK	AR
A-61A or equivalent	BOND	AR
200-822000-11	SHIM (0.1 ^m / _m)	1
200-822000-13	SHIM (0.2 ^m / _m)	2

- 9 SPECIAL TOOL : None required.



10 WEIGHT AND BALANCE : Negligible.

11 REFERENCE : None.

12 MANHOURS REQUIRED : 25 Manhours required.

13 DETAILED INSTRUCTIONS (See figure 1)

- (1) Jack up airplane (or Nose landing gear only).
- (2) Nose landing gear shock strut fitting, 200-822140-11, is secured with special bolt, 200-822041-003, and standard bolt, AN 8-37. Loosen these two bolts until clearance is made for inserting thickness gauge.
- (3) Remove shimmy damper and steering system from Nose landing gear shock strut.
- (4) Insert thickness gauge (0.2 to 0.4 mm) into the clearance between shock strut fitting, 200-822041-003 and fuselage side fitting, 200-430106-001. Gauge to be placed immediately above the center of special bolt, 200-822041-003.
- (5) Bolts, previously loosened in step (2), to be tightened to the specified torque value.
- (6) Move landing gear in the left and right directions, and check to see that steering operation has become lighter and smoother compared with previous non-shim condition. If steering operation remains the same, use different thickness gauge and, recheck for proper operation.
- (7) Through the above checking procedure, select and or combine the same thickness shim(s) as the gauge used to produce the smoothest steering operation.
- (8) Remove Nose landing gear upper stopper, 200-822152-003, and remove landing gear assembly with its fitting, 200-822140-11.



- (9) With adhesive (A-6/A or equivalent), bond the selected shim to fuselage side fitting, 200-430106-001, as illustrated in figure 1. (Bonding area is the place temporarily occupied by the thickness gauge.)
- (10) Install Nose landing gear in the reversed procedure of removal.
- (11) Nose landing gear attaching bolts to be torqued to the specified value, and steering operation to be checked for proper performance as noted in step (6).
- (12) Install shimmy damper and steering system, and check to be sure that steering operation of improved Nose landing gear is lighter than that of non-shim mechanism.
- (13) Bring down airplane.

