

Service Bulletin

No. SB-AG-42

P.O. Box 3090 One Ayres Way Albany, GA 31706-3090 Phone (912) 883-1440 Fax (912) 439-9790

BACKGROUND:

Field service reports indicate that MLG bolts are cracking at the 1/16" grease access hole located approx. 1 7/8" from the bolt head.

In June 1991 Ayres Corp. modified the M/L/G fuselage attach to incorporate a drilled bolt with a grease fitting located in the bolt head to facilitate M/L/G lubrication. The landing gear was modified by installing a knurled bushing to aid greasing. The existing AN10-33 bolt was used and modified as described above. The bolt was assigned part number 21418T001. After implementation of the drilled bolts, field service indicated a need to make another change due to cracking and bolt failure.

In June 1995 the AN10-33 bolt was replaced with a NAS6610-42D with the same modifications made for M/L/G lubrication and assigned part number 21418T005. Recently, it has been reported that a 21418T005 modified bolt was found with a crack.

ACCOMPLISHMENT INSTRUCTIONS: I. Remove L/H and R/H lower landing gear skins P/N's 11008-1 & 10818-1 to gain access to M/L/G fuselage attach bolt. Ensure M/L/G bolt has a grease fitting installed through the shank. Note: This bulletin does not apply to aircraft with grease fittings installed in the M/L/G and the attach bolts are not drilled for grease access.

Bolt replacement should be accomplished in accordance with procedures found in Ayres Maintenance Manual Section II, "Serving " and Section VI, "Landing Gear, Wheel and Brakes".

After proper M/L/G bolt removal procedures have been carried out, replace the drilled bolts. P/N 21418T001 or 21418T005 with an undrilled (no grease access) bolt. P/N AN10-33 or NAS6610-42D.

Prior to installation of the new bolts make certain to apply a quality multi-purpose grease generously to the M/L/G knurled bushings as well as to the bolts. Install bolts in accordance with the above ref. Ayres Maintenance Manual procedure.

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II. Inspect M/L/G attach bolts, P/N AN10-33 or NAS6610-42D, every 800 hrs or annually, whichever occurs first, for cracks, wear, damage, and general condition. Replace as necessary or, if no defects are noted at time of inspection replace M/L/G attach bolts every 1600 hrs or every other annual, which ever occurs first.

AIRCRAFT RECORDS:

Enter in Aircraft Log Book: SB-AG-42, dated June 16, 1999 Entitled Main Landing Gear Attach Bolt Inspection accomplished on _____(date). Total Airframe hours _____ by _____.