

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref. : 2002-202(B)
In case of any difficulty, reference should be made to the French original issue.

AIRBUS

A319, A320 and A321 aircraft

Additional electrical bonding in fuel tanks (ATA 28)

APPLICABILITY:

AIRBUS A319, A320 and A321 aircraft, all certified models, all serial numbers, except aircraft that have received both AIRBUS modifications 27150 and 27955 in production (or AIRBUS INDUSTRIE Service Bulletin (SB) A320-28-1077 revision 4 in service),

and

AIRBUS A321-211 and A321-231 models, serial numbers (MSN) 633, 663, 666, 668, 677, 680, 687, 715, 725, 775, 781, 808, 815, 823, 841 and 852, except aircraft that have received AIRBUS modification 27472 in production (or SB A320-28-1079 in service).

REASONS:

Following a review of the electrical bonding methods applied on various in-tank components and fuel pipe couplings of A319, A320 and A321 aircraft, it has been identified that the efficiency of the electrical bonding must be improved in certain areas.

Insufficient electrical bonding may in certain flight conditions (aircraft lightning, static charge accumulation) lead to electrical arcing inside the tanks, which, in case of the ignition of fuel vapors, could cause the fuel tank explosion.

Airworthiness Directive (AD) 2000-006-144(B) R1 mandated improvement of the electrical bonding of certain areas as per SB A320-28-1077 at original issue.

SB A320-28-1077 R1 extend bonding to components at rib 15:

- A319 and A320 fuel pump,
- A321 re-circulation system.

The aim of revision 4 of this BS is to clearly identify this additional work.

This AD mandates SB A320-28-1077 R4 and in addition SB A320-28-1079 for aircraft, which are equipped with Additional Center Tank (ACT) to complete the bonding on the fuel system.

COMPLIANCE:

1. Before December 31, 2004, unless already accomplished, modify the fuel tank bonding in accordance with the instructions given in SB A320-28-1077 Revision 4.

Accomplishment of SB A320-28-1077 at Revisions 1, 2 or 3 is considered as an acceptable means of compliance at the condition that the additional works at rib 15 have been done.

2. Before December 31, 2004, on aircraft MSN 633, 663, 666, 668, 677, 680, 687, 715, 725, 775, 781, 808, 815, 823, 841 and 852, unless already accomplished, modify the ACT bonding in accordance with the instructions given in SB A320-28-1079.

REF.: AIRBUS INDUSTRIE Service Bulletin A320-28-1077 Revision 4
AIRBUS INDUSTRIE Service Bulletin A320-28-1079
Any later approved revision of these SB's is acceptable.

This AD replaces AD 2000-006-144(B) R1 which is cancelled.

EFFECTIVE DATE : APRIL 27, 2002