

Service Bulletin

Service Bulletin: SB A109H-500; Agusta A109 Cabin Heater Bleed Air Check Valve Replacement.

Subject: Replacement of S-9740EC-2 Check Valve with S-9740EC-3.

Date: 9 August 2006, Rev N/C

Applicability: Agusta A109 Helicopters equipped with the Air Comm Corporation A109H Cabin Air Heater System with heater kit S/N A109-01 thru A109-11.

Reference: 1 FAA / STC # SR00291DE, Agusta Helicopter A109 Cabin Air Heating System.
2 Bleed Air Plumbing Installation Drawing #A109H-500.

Compliance: For S-9740EC-2 Check Valves with 500 hours or more, replace the valves with new S-9740EC-3 Check Valves within the next 100 hours.
For S-9740EC-2 Check Valves with less than 500 hours, replace the valves with new S-9740EC-3 Check Valves before the accumulation of 500 hours, or if the aircraft has between 400 hours and 500 hours, replace the valve within the next 100 hours.

I. Discussion:

Due to a recent internal failure of the current Check Valve, Air Comm Corporation has replaced the S-9740EC-2 Valve with an improved S-9740EC-3 valve.

The failure of this valve can cause a reverse bleed air flow during an OEI operation, resulting in a power loss from the operating engine.

The replacement valve must be ordered from the Air Comm Corporation Customer Service Department.

II. Approval:

Technical aspects of this Service Bulletin are FAA / DER approved.

III. Purpose:

This document provides for the replacement of the S-9740EC-2 Valve by the S-9740EC-3 Bleed Air Check Valve. Also, a check valve life limit of 1000 hours has been established for the new valve.

IV. Bill of Materials:

Parts to be Removed:

Item	Part Number	Description	Quantity
1	S-9740EC-2	Check Valve	1

Parts to be Installed:

Item	Part Number	Description	Quantity
1	S-9740EC-3	Check Valve	1

V. Accomplishment Instructions:

REMOVAL, INSTALLATION / REPLACEMENT.

CAUTION

Always support valves with the proper size wrench (1")
when tightening or loosening bleed air lines.

REMOVAL

Open both engine cowlings to gain access to Check Valves. Disconnect tubing from each end of left Check Valve. Remove fasteners securing clamps (if installed). Remove Check valve, repeat procedure for right Check Valve.

INSTALLATION / REPLACEMENT

Install the new S-9740EC-3 Check Valves in the reverse order of their removal. Apply Anti-Seize (or eq.) to threads prior to installation. Safety wire per MIL-P-8564 para. 3.3.7 using MS20995C-32 Safety Wire.