Air Comm Corporation

Alert Service Bulletin

Title: Eurocopter MBB-BK117 C-2 Environmental Control Unit installation inspection and possible rework

Date: 15 October 2012

Applicability: Owner/Operators of Eurocopter MBB-BK117 C-2 Helicopters with STC SR00601DE Air Conditioning System

Reference:

FAA / STC # SR00601DE, Eurocopter MBB-BK117 C-1/C2 Air Conditioning System
Dwg. EC145-808 Electrical Installation Drawing
MBB BK117 C-2 AMM Chap. 24

Compliance: Within 30 days after receipt of Alert Service Bulletin. All HC MBB BK117 C-2 SNs with STC # SR00601DE installed (verify in log book).

A. Discussion:

Air Comm Corporation was recently informed by American Eurocopter that during the modification of the No. 2 Distribution Panel (A10012 panel) on aircraft model MBB-BK117 C-2, the air conditioner 5 amp circuit breaker was mis-wired to the No. 2 shed bus on some aircraft. This will cause the air conditioner to operate with battery power while the emergency shed bus is switched to ON rather than operating from the non-essential bus.

This modification of the No. 2 Distribution Panel (A10012 panel) was done to accommodate the installation of the air conditioner circuit breaker for the Air Comm Corporation Environmental Control Unit according to STC SR00601DE.

As a result of this, Air Comm Corporation as the STC holder recommends to every user of STC SR00601DE installed on a MBB-BK117 C-2 to verify the correct connection of the air conditioning circuit breaker. Refer to Air Comm Drawing EC145-808, Electrical Installation in the STC package for details.

In case a non-conforming condition is identified as a result of this verification, the operator shall rework the non-conforming distribution panel to the Air Comm drawing or contact Air Comm Corporation for further instructions.

B. Approval:

The technical aspects of this service bulletin have been FAA approved.

C. Weight & Balance:

There is no change in weight due to the inspection and possible rework.

D. Revision History:

Revision	Issue Date	Inserted By	Approved	Description of Changes
N/C	10/4/12	RL	MK	Initial Release

E. Inspection/Rework Instructions:

NOTE

Loss of generator output will activate the BK 117 helicopter's auto load shed system, which will de-energize the entire air conditioning system.

1. Prepare helicopter for applying electrical power per MBB BK117 C-2 AMM Chap. 24.
2. Attach ground power unit and ensure it is providing +28 VDC power to the aircraft.
3. Ensure battery is connected and the BAT MSTR switch is ON.
4. Turn EMRG SHD BUS switch to ON.
5. Place the AIR COND switch in the A/C position and verify system is operating. (If not operating, troubleshoot and repair as necessary.)
6. Disengage ground power unit (with BATT MSTR still on).
7. If the air conditioning system shuts off, the aircraft is properly wired. No further action is needed, proceed to step 10.
8. If the air conditioning system continues to run, it is not wired to the non-essential bus.
9. Remove attaching hardware securing No. 2 Distribution Panel (A10012 panel) and position to access air conditioner 5 amp circuit breaker (shown in Figure 1.1). Re-configure circuit breaker as needed to connect it to the No. 2 Non-essential bus according to Figure 1.2. Repeat test.
10. Secure aircraft.
11. Sign off ASB in aircraft log book as complied with.
12. Contact Air Comm Corporation if additional guidance is needed.

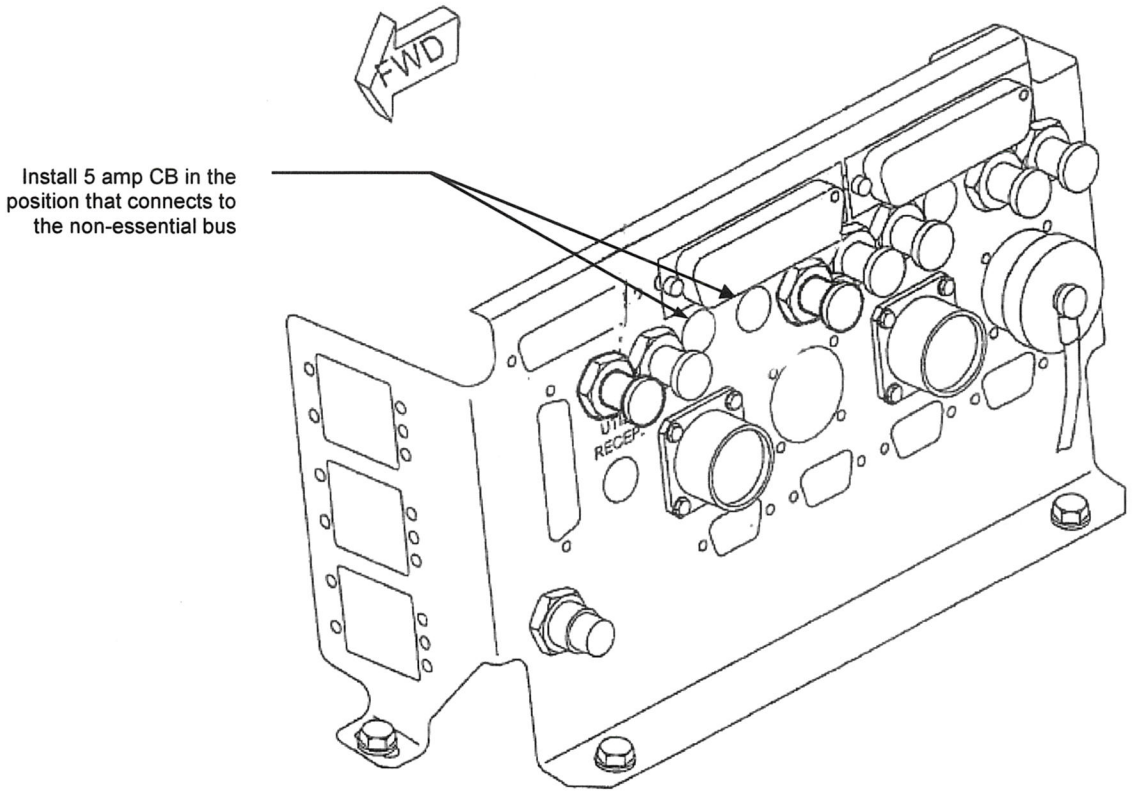

Figure 1.1
No. 2 Distribution Panel A10012

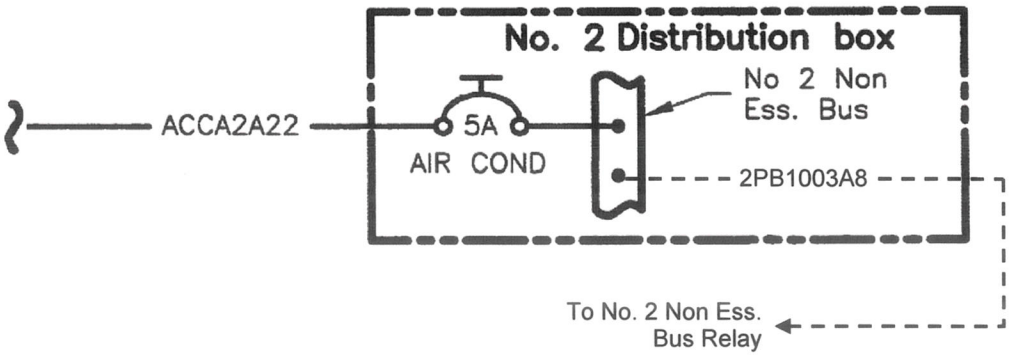

Figure 1.2
Air Conditioner Electrical Schematic
Air Conditioner 5 Amp Circuit Breaker Connection