



Service Bulletin

Title: SB EC145-072120; Airbus Helicopters EC145 Condenser Coil Upgrade

Date: July 21, 2020

Applicability: Airbus Helicopters Deutschland Model MBB-BK 117 C-1 and C-2 helicopters equipped with the Air Comm Corporation EC145-203, EC145-204-X, or EC145-205-X air conditioning systems

Reference: FAA / STC # SR00601DE, Cabin Air Conditioning System.

Compliance: As required to replace obsolete condenser installations

Required Equipment:

1x EC145-7004-1 Condenser Assembly	1x EC145-7016-12 Support Tube
1x EC145-7016-16 Support Tube	MS20995 C32 Safety Wire
2x MS35265-43 Screws	2x NAS1149FN832P Washers
2x MS27039-1-08 Screws	2x NAS1149F0363P Washers
2x MS21042L3 Nuts	

A. Discussion:

Due to vendor obsolescence of the condenser coil, Air Comm Corporation has incorporated a new condenser installation for STC SR00601DE. This Service Bulletin offers instructions for upgrading an aircraft with an obsolete installation to the latest configuration.

B. Warranty:

None

C. Approval:

The technical aspects of this Service Bulletin are based on FAA approved data.

D. Weight & Balance:

This Service Bulletin does not significantly impact the installation weight.

Revision	Issue Date	Inserted By	Approved by	Description of Changes
NC	07/21/2020	CRP	MFK	Initial Release

E. Procedure:

1. Remove the existing condenser from the aircraft in accordance with EC145-200M-1 Instructions for Continued Airworthiness. Retain all hardware.
2. Install the EC145-7004-1 Condenser Assembly to the aircraft using the mounting holes used for the previous condenser assembly.
3. Temporarily install the inboard end of EC145-7016-12 and EC145-7016-16 Support Tubes to the existing tabs on the tail boom.
4. Verify minimum clearances of 0.10 inch between the condenser assembly and the cabin air heater and 0.30 inch between the condenser assembly and fairing. Adjust the condenser as necessary to achieve clearance. Tubes may be bent as required to clear aircraft structure. See Figure 1 for typical bending on the EC145-7016-12 Support Tube to clear firewall.



Figure 1: Typical bending of EC145-7016-12 Support Tube

5. If necessary, the aft condenser assembly mount may be trimmed as shown in Figure 2 as required, up to 0.5 in. depth, to obtain clearance between condenser assembly and fairing dzus fastener.

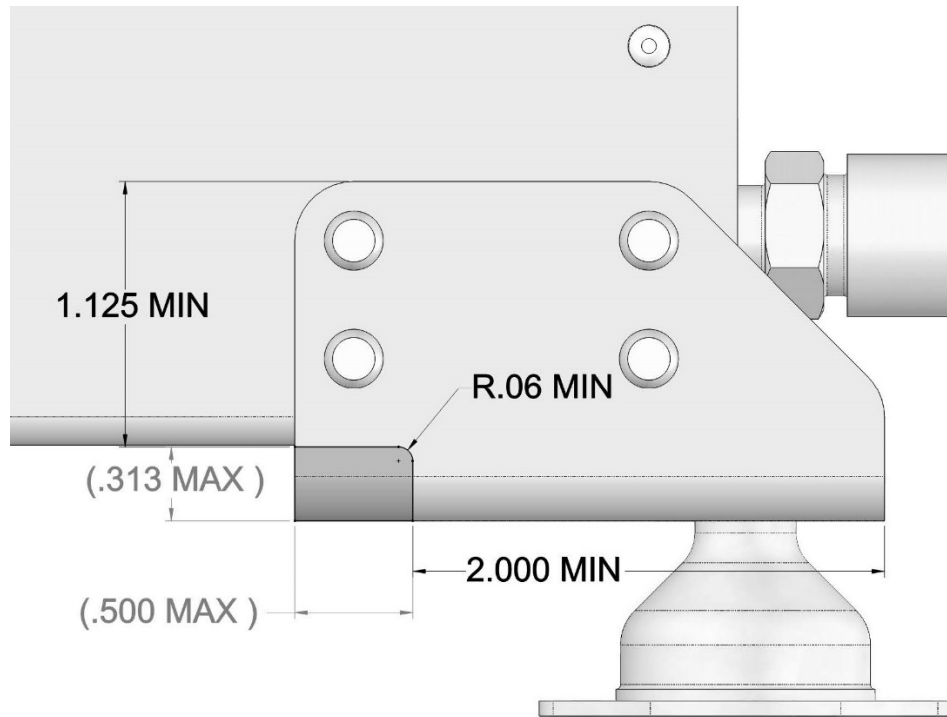


Figure 2: Allowed fastener trimming

6. After obtaining the required clearance, mark outboard hole location on both tubes. Remove tubes from the aircraft, then drill one $\text{\O}0.171$ hole for screw and one $\text{\O}0.070$ in. hole for safety wire. See Figure 3 for more information.

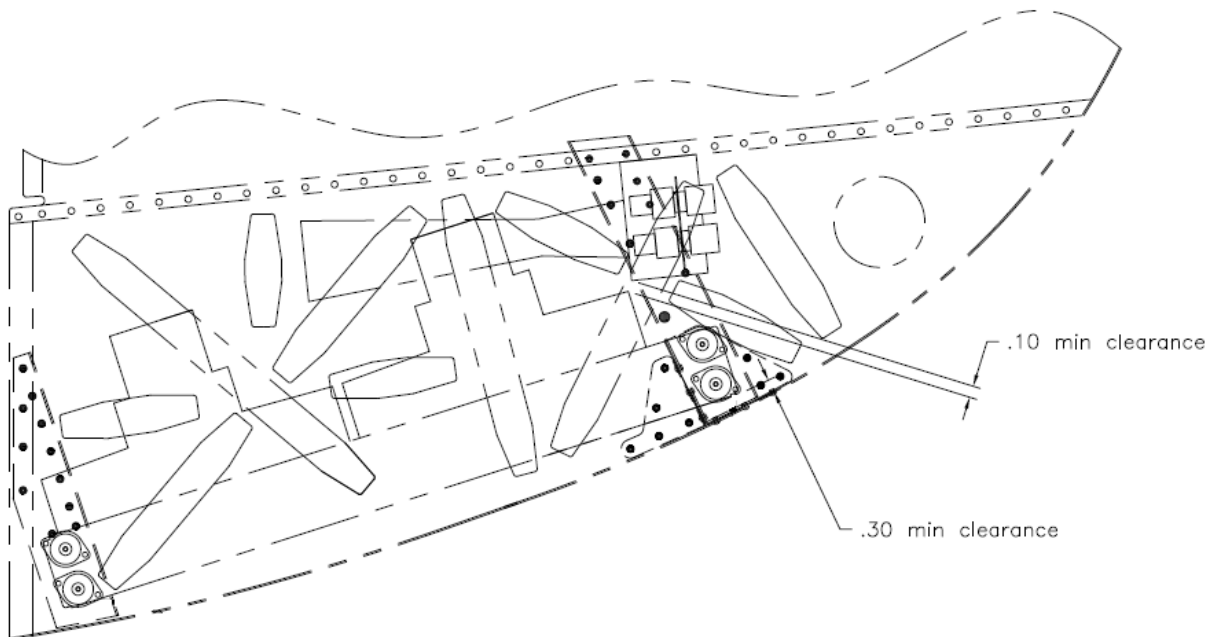


Figure 3: Condenser Installation Clearance

7. Reinstall EC145-7016-12 and EC145-7016-16 Support Tubes per Figure 4 using 2x MS35265-43 Screws and 2x NAS1149FN832P washers for the outboard side of each tube, and 2x MS27039-1-08 screws, 2x NAS1149F0363P washers, and 2x MS21042L3 nuts for the inboard side. Safety wire per MIL-P-8564 paragraph 3.3.7 using MS20995 C32 safety wire.
8. For all other items not expressly noted, reinstall per Air Comm drawing EC145-705-1.
9. Sign off aircraft logbook that S/B EC145-072120 has been performed, and the Air Comm Corporation Air Condenser Installation is EC145-705-1.

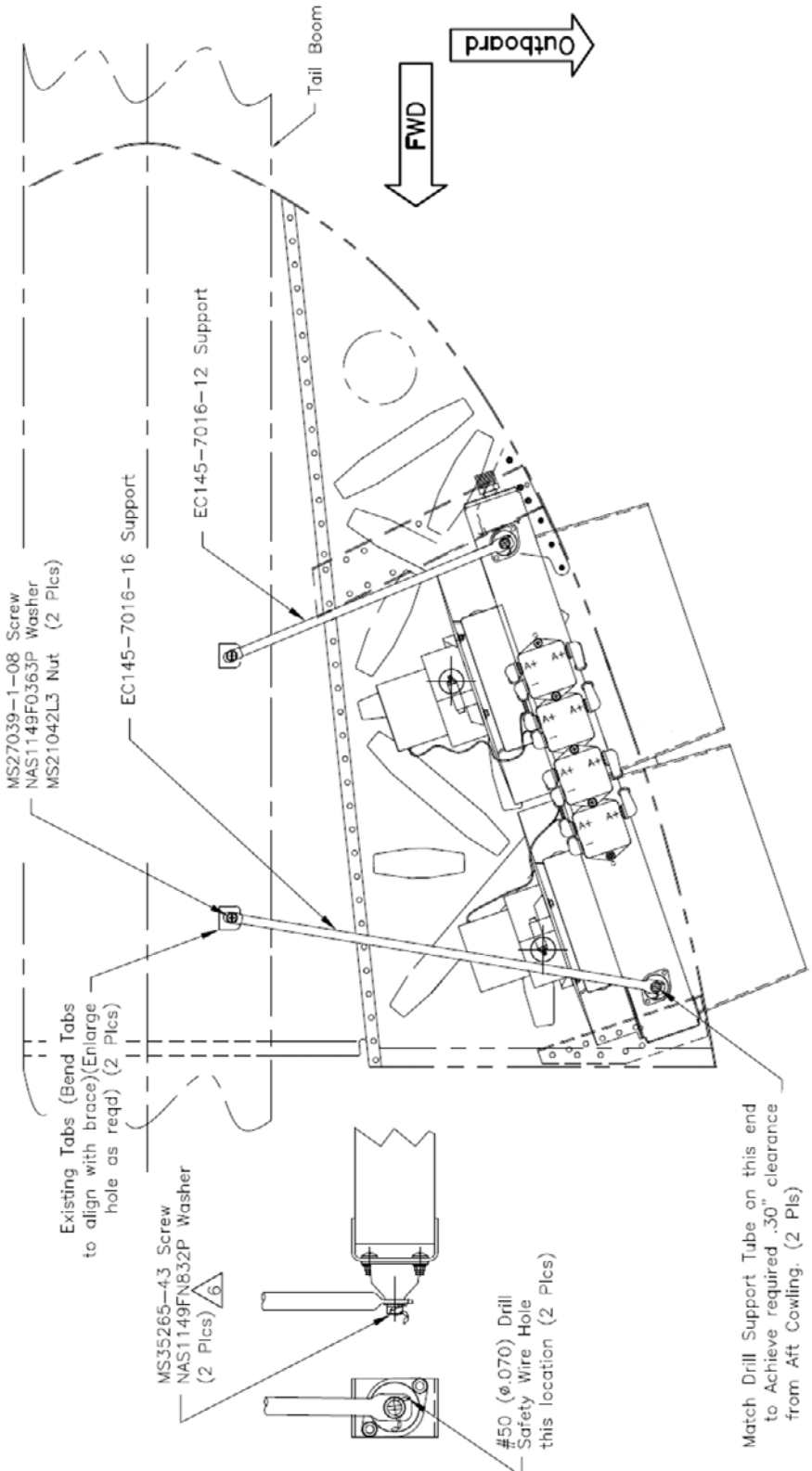


Figure 4: Support Tube Installation