Service Bulletin

Title: SB EC145-022216; Airbus EC145 Heater Hose Chaffing Prevention Measures

Date: 25 February, 2016

Applicability: Airbus Helicopter model EC145 equipped with the Air Comm Corporation air conditioner system, all kits prior to Jan. 2014.

Reference:
1. FAA / STC # SR00601DE, Airbus Helicopter EC145 Air Conditioning System, Model MBB-BK 117 C-1, C-2
2. ACC Drawing EC145-704, revision V

Compliance: Inspection within 20 flight hours,
Recommended implementation within 50 flight hours

A. Discussion:

Field reports have indicated that the integration of the ACC condenser assembly can result in a chaffing issue between an OEM flex heater line and the airframe. The installation of the Air Comm condenser assembly requires an adjustment in the positioning of two heater lines and in some instances the restraints and the re-positioning of the two lines has reduced the airframe clearance to a dimension less than permissible, resulting in interference and chaffing during flight. The ACC condenser installation drawing has been previously revised to include anti-chaffing materials to address this concern. This Service Bulletin supplies the details of this change to operators with pre-2014 installations. In some cases the section of the heater line with the chaffing concern has a factory-installed compliant thermal cover. For these aircraft the implementation of this Service Bulletin is not necessary.

B. Parts:

The required materials include 24 in. of ACC ES06004-3 Anti-Friction tape and 24 in. of ACC ES06005-6 Spiral Wrap. They can be obtained from the Air Comm Corporation Service Department. Please contact us at: Phone 303-440-4075, Fax 303-440-6355, or E-mail service@aircommcorp.com

C. Approval:

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

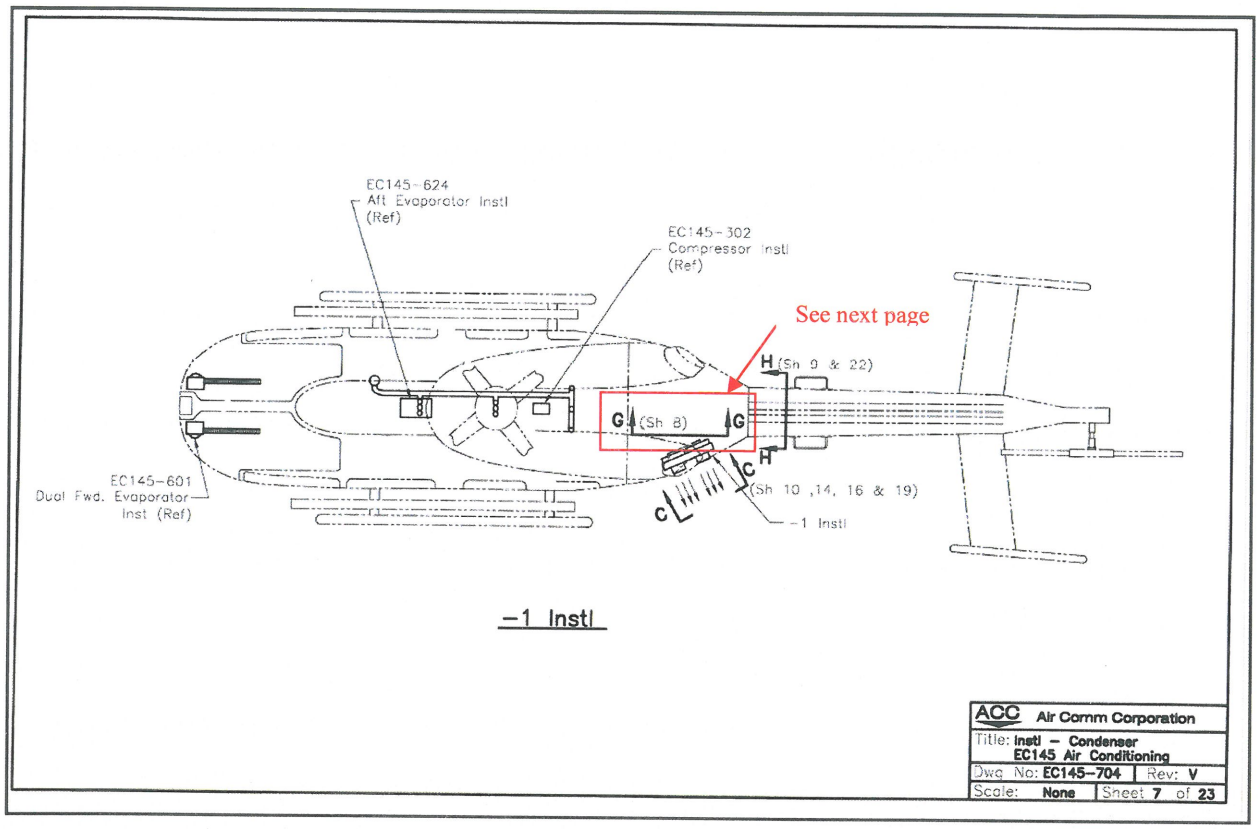
D. Weight & Balance:

The weight change due to the installation of these parts would be negligible and no adjustment to the weight and balance of the aircraft is necessary.

Revision	Issue Date	Inserted By	Approved by	Description of Changes
NC	02/25/2016	JMB	BAD	Initial Release

E. Procedure

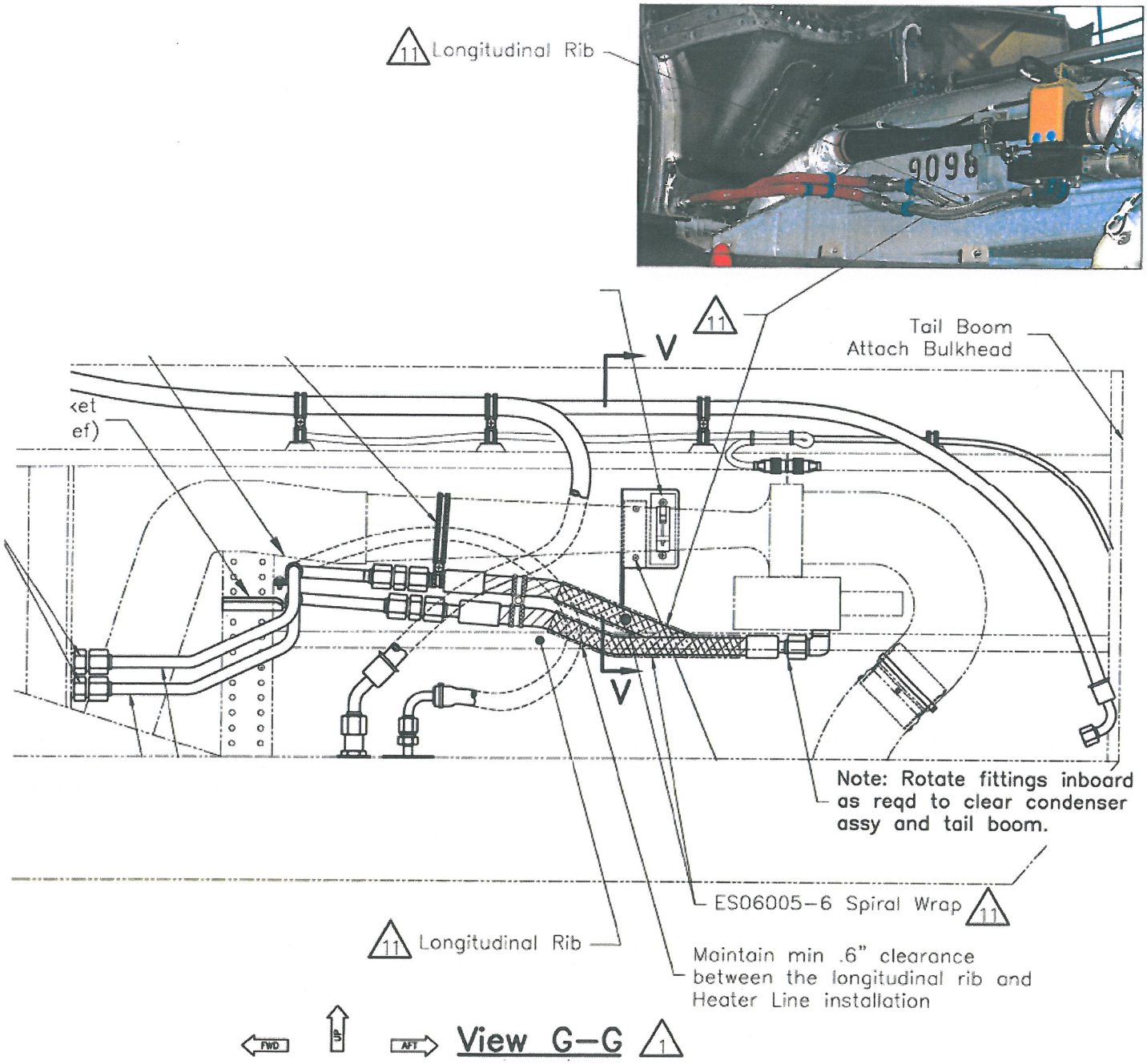
1. Refer to section view G-G shown on the overall aircraft view below and in detail on the following page.



2. Note the cross hatched zones shown in view G-G on page 3. If the aircraft is equipped with thermal sleeving on the two heater tubes in this region then this Service Bulletin does not apply. The sleeving will provide the necessary anti-chaffing function. However, verify the .6in. clearance between sleeving and structure per the note in view G-G. Adjust the clamping of the tubes if necessary to achieve this clearance.

3. If the aircraft heater tubes are not supplied with the thermal sleeving in the noted region, inspect the heater lines to ensure there is no damage to the heater lines if chaffing has occurred. Contact ACC for the materials and install the ES06005-6 spiral wrap material onto the hoses as noted by the cross hatched region in view G-G below and flag note 11 below. Also, adhere the ES06004-3 tape to the airframe in the appropriate region that could be contacted by the tubing per flag note 11 below.

11. If factory hose covers are not previously installed, locally wrap the stainless steel covered heater hoses with ES06005-6 Spiral Wrap approx as shown, as required. Apply ES06004-3 Anti-Friction Tape to the longitudinal rib in the vicinity of the heater hoses, as required, to prevent chafing of the heater hoses against the rib on the aircraft. (Sh 8)


11 Longitudinal Rib
9098
11
V
Tail Boom
Attach Bulkhead
Note: Rotate fittings inboard as reqd to clear condenser assy and tail boom.
ES06005-6 Spiral Wrap 11
11 Longitudinal Rib
Maintain min .6" clearance between the longitudinal rib and Heater Line installation
FWD
AFT
View G-G 1