

Service Bulletin

Service Bulletin: SBA119-3010; Agusta A119 Air Conditioner Compressor Temperature Sensor Replacement.

Subject: Removal & Replacement of A119 Air Conditioner Compressor Temperature Sensor.

Date: 25 January, 2002, Rev N/C

Applicability: Agusta A119 Helicopter, S/N 14019. Equipped with the Air Comm Corporation A119-200-1 Air Conditioning System.

Reference: 1. FAA / STC # SR00463DE, Agusta Helicopter A119 Air Conditioning System.
2. Compressor Assembly Drawing # A119-3010

Compliance: Mandatory to insure the continues operation of the Air Conditioner System.

I. Discussion:

Due to the location of the Air Conditioner Compressor Assembly in relation to the aircraft engine compartment. Higher than expected temperatures around Compressor assembly may be causing the ES52130-3 Temperature Sensor to prematurely close.

The closure of the ES52130-3 Temperature Sensor energizes a latching relay located in the Air Conditioner Relay Panel. This in turn cuts power to the Air Conditioner Compressor Clutch Assembly until such time that the system can be manually reset, using the "Reset Switch" located on the Relay Panel in the baggage compartment.

II. Approval:

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

III. Purpose:

The purpose of this bulletin is to Remove, and Replace the Temperature Sensor located on the Air Conditioner Compressor Assembly. The current Temperature Sensor (ES52130-3) has a close point of 160° F, this sensor is to be replaced with a Temperature Sensor with a close point of 220° F (ES52130-1).

IV. Bill of Materials:

Parts to be Removed:

Item	Part Number	Description	Quantity
1.	ES52130-3	Temperature Sensor (160°)	1

Parts to be Installed:

Item	Part Number	Description	Quantity
1.	ES52130-1	Temperature Sensor (220°)	1
2.	TSE-16-001	Connector	2
3.	31F2171	Fiber Washer	2

V. Accomplishment Instructions:

Removal

1. Remove the two (2) MS37039CO805 Screws that secure the ES52130-3 Temperature Sensor to the A119-3010-1 Compressor Body.
2. Cut wires ACCA5B22 at ES52130-3 Temperature Sensor, and Discard Sensor.

Installation / Replacement

1. Install TSE-16-001 Connector on wires ACCA5B22, and wire leads to ES52130-1 Temperature Sensor. (See Figure 1-1)
2. Install ES52130-1 on A119-3010-1 Compressor Body using the two (2) existing MS37039CO805 Screws.
3. With the aircraft running, operate the Air Conditioner, and perform a Maintenance Operation Check of the system.

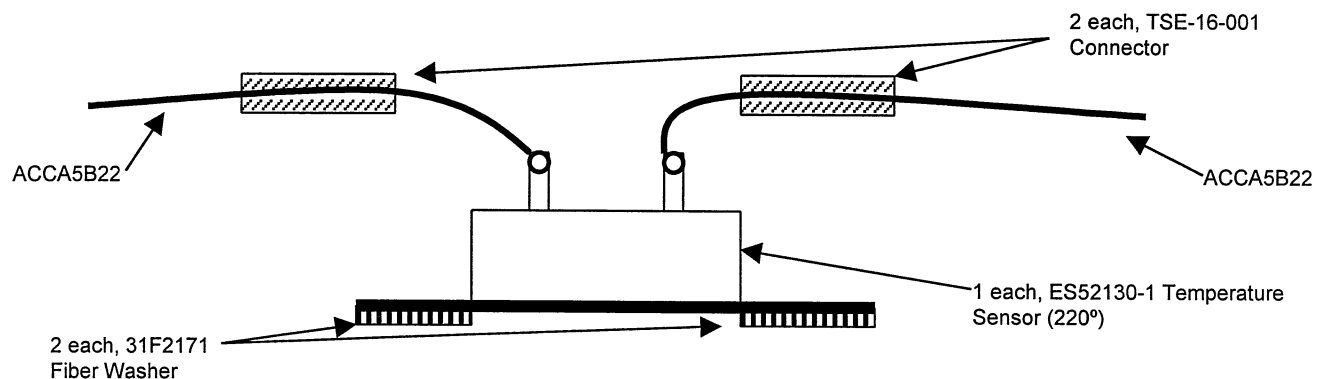


Figure 1-1