

Service Bulletin

Service Bulletin: SB EC135-700; Eurocopter EC135 Air Conditioner Condenser Air Inlet, and Hi / Lo Pressure Switch Up-grade Bulletin.

Subject: Condenser Air Inlet & Hi / Lo pressure Switch Up-grade.

Date: 23, July 2007, Rev N/C

Applicability: Eurocopter Helicopter model EC135 Equipped with the Air Comm Corporation EC135-200 & EC135-202 Air Conditioning System.

Reference:

1. FAA / STC # SR00565DE, Eurocopter Helicopter EC135 Air Conditioning System.
2. General Arrangement Installation Dwg. EC135-200
3. General Arrangement Installation Dwg. EC135-202
4. Refrigerant Plumbing Installation Dual Evap. Dwg. EC135-500
5. Condenser Installation Dwg. EC135-700

Compliance: Is at the Discretion of the operator.

I. Discussion:

It has come to our attention that in certain extreme environmental conditions that the condenser Hi / Lo pressure switch may incur some nuisance cycling during normal operation of the air conditioner. The items included in this bulletin are designed to prevent the occurrence of this problem.

II. Approval:

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

III. Purpose:

Both the condenser air inlet cutout / scoop modification and the Hi / Lo pressure switch change are product improvements designed to enhance the operation of the EC135 air conditioner system.

IV. Bill of Materials:

Parts to be installed:

Item	Part Number	Description	Quantity
1	ES57178-1	Hi / Lo Pressure Switch	1
2	EC135-7018-1	Nutplate Ring Assy.	2
3	S-7024EC-1	Scoop	2
4	EC135-7018-5	Screen	2
5	AN525-832R7	Screw	24

V. Accomplishment Instructions:

NOTE

It will be necessary to access the existing Hi / Lo pressure switch which is located on aircraft left, behind the condenser assembly.

It will also be necessary to remove the two aft engine cowlings for the installation of the new air inlet assemblies.

It is not necessary to discharge the refrigerant from the system, as the Hi / Lo pressure switch is isolated from the refrigerant via a Schrader Valve Assembly.

Installation:

1. Disconnect the two spade connectors from the existing ES57010-1 Hi / Lo pressure switch, and remove the switch from the Schrader Valve located at the top of the receiver drier bottle located on the back of the condenser. Install new ES57178-1 Hi / Lo switch in the reverse order of its removal.

2. Using ACC Drawing EC135-700, Revision D or subsequent. Install the EC135-7018-1 Nutplate Ring, EC135-7018-5 Screen, and S-7024EC-1 Scoop in accordance with this drawing.

Weight and Balance:

Installation of these parts is negligible and no adjustment to the weight and balance of the aircraft is necessary.