

Service Bulletin

Service Bulletin: SB EC135-502; Eurocopter EC135 Air Conditioner Hi/Lo Pressure Switch Change.

Subject: Air Conditioner Hi/Lo Pressure Switch Change.

Date: 7 June 2007, Rev N/C

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

Reference:

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

Compliance: Is at the Discretion of the operator.

I. Discussion:

Operators in the field have noted during certain ambient conditions that compressor clutch cycling can occur. To prevent unnecessary cycling of the compressor clutch, a minor increase to the system operational discharge pressure is accomplished with the replacement of the existing Hi/Lo pressure switch.

II. Approval:

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

III. Purpose:

To prevent nuisance compressor clutch cycling.

IV. Bill of Materials:

Parts to be removed:

Item	Part Number	Description	Quantity
1	ES57008-2, or ES57010-1	Hi/Lo Pressure Switch	1

Parts to be installed:

Item	Part Number	Description	Quantity
1	ES57178-1	Hi/Lo Pressure Switch	1

V. Accomplishment Instructions:

NOTE

It will be necessary to access the air conditioner condenser on the L/H side of the aircraft above the clam shell doors.

NOTE

It is not necessary to discharge the refrigerant from the system to replace the air conditioner Hi/Lo Pressure Switch.

Removal:

1. Disconnect the two electrical connectors from the top of the existing ES57008-2, or ES57010-1 Hi/Lo Pressure Switch.
2. Remove the existing switch by unscrewing the switch from the Schrader Valve connection on the top of the receiver drier bottle, remove and discard the switch.

CAUTION

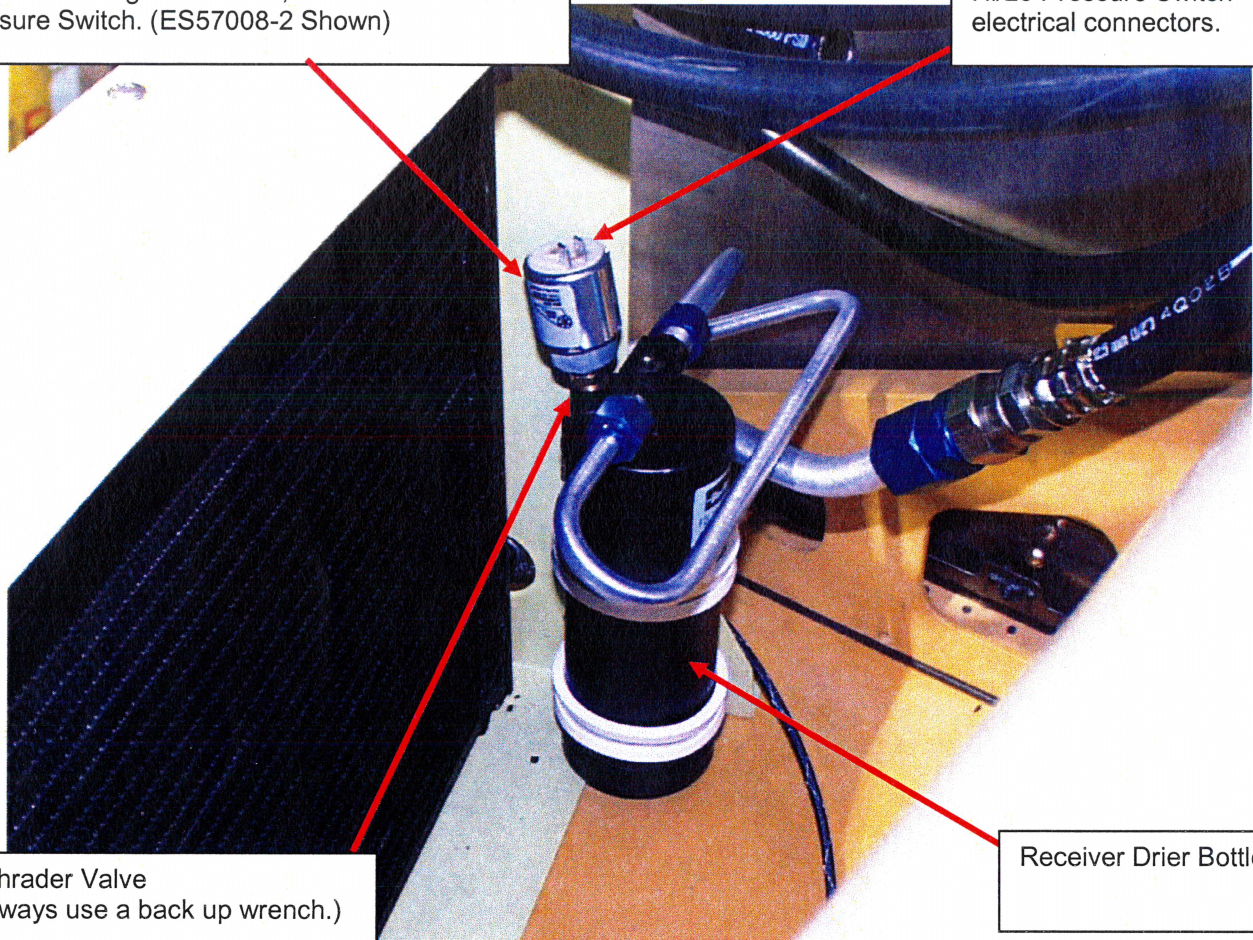
Insure that you remove only the Hi/Lo Pressure Switch from the receiver drier bottle. The use of a "back up" wrench is necessary to insure that the Schrader Valve assembly is not loosed or removed during this process. (See figure 1-1)

Installation:

- 1 Install new ES57178-1 Hi/Lo Pressure Switch on the existing Schrader Valve located on the top of the receiver drier bottle.
2. Reconnect the two electrical connectors to the two post on the top of the new Hi/Lo Pressure Switch.
3. Return the air conditioner to service.

Remove existing ES57008-2, or ES57010-1Hi/Lo Pressure Switch. (ES57008-2 Shown)

Hi/Lo Pressure Switch electrical connectors.



Schrader Valve
(Always use a back up wrench.)

Receiver Drier Bottle.

Figure 1-1
View looking forward & down & outboard.

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