

Service Letter

FAA-DER APPROVED

Service Letter: No. 336

Subject: Bell 412 Air Conditioner Hi/Lo Pressure Switch / Receiver Drier Schrader Valve Installation

Date: 5 December, 2000

Applicability: Bell Helicopter Model 412

Reference: F.A.A. / S.T.C. SR00066DE
Drawing # 412AC-100, 412AC-102

Compliance: At the discretion of the operator

Background: The current configuration of the Bell 412 air conditioner requires that the system be discharged of refrigerant any time there is a need to replace the ES57008-1 Hi/Lo Pressure Switch. The following change allows for the replacement of the Hi/Lo Pressure Switch without the need to discharge the refrigerant from the system.

Approval: The Technical aspects of this Service Letter are FAA / DER approved.

Bill of Materials of Item to be **removed**:

Item	Part Number	Description / Nomenclature	Remove
1	ES57008-1	Hi/Lo Pressure Switch	1

Bill of Materials of item to be **Installed**:

Item	Part Number	Description / Nomenclature	Install
1	FT9514	Schrader Valve Assembly	1
1	440-840	#6 O-ring	1
1	ES57008-2	Hi/Lo Pressure Switch	1

I. Removal:

1. Remove the upper transmission cowling to gain access to the air conditioner receiver drier, and Hi/Lo Pressure switch.

CAUTION

Refrigerant servicing should be performed by qualified personnel only!

2. Discharge the refrigerant from the air conditioner system, using the appropriate refrigerant recovery and recycling equipment.

CAUTION

It is recommended that the battery and external power be disconnected prior to starting work.

3. Remove the two (2) spade connectors from the top of the ES57008-1 Hi/Lo Pressure Switch. (See Fig. 1-1)

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Removal Continued:

4. Using a $\frac{3}{4}$ " opened end wrench remove the ES57008-1 Hi/Lo Pressure Switch from the port in the top of the receiver drier bottle.

NOTE

Be prepared to install the new components as quickly as possible. This will reduce the risk of the receiver drier bottle becoming contaminated with moisture. Contamination of the receiver drier will result in the need for its replacement.

II. Installation:

1. Install one (1) each 440-840 #6 O-ring & FT9514 Schrader Valve assembly in the port located on the top of the receiver drier bottle. Torque Schrader Valve assembly 40-55 in lbs. (See Fig. 1-2)

NOTE

Place one drop of polyester based R134a refrigerant oil on the O-ring prior to installation. This will aid in preventing damage to the O-ring surface during installation.

2. Install the new ES57008-2 Hi/Lo Pressure Switch on the Schrader Valve assembly, and torque 30-40 in lbs.
3. Re-install the two (2) spade connectors to the top of the ES57008-2 Hi/Lo Pressure Switch. (See Fig. 1-1)
4. Re-service the air conditioner with R134a refrigerant per Servicing Instructions in applicable service manual (412AC-200M, 412AC-203M, 412AC-206M, or 412AC-208M).
5. Conduct leak check using a R134a compatible electronic leak detector to insure there are no refrigerant leaks associated with this change.

NOTE

Identification and elimination of system leaks is extremely important to insure the trouble free operation of this system.

6. Perform a maintenance operational check of the air conditioner system.
7. Re-install the upper transmission cowling.

III. Weight and Balance:

Weight and balance considerations for this installation are negligible, and does not alter the existing weight and balance figures.

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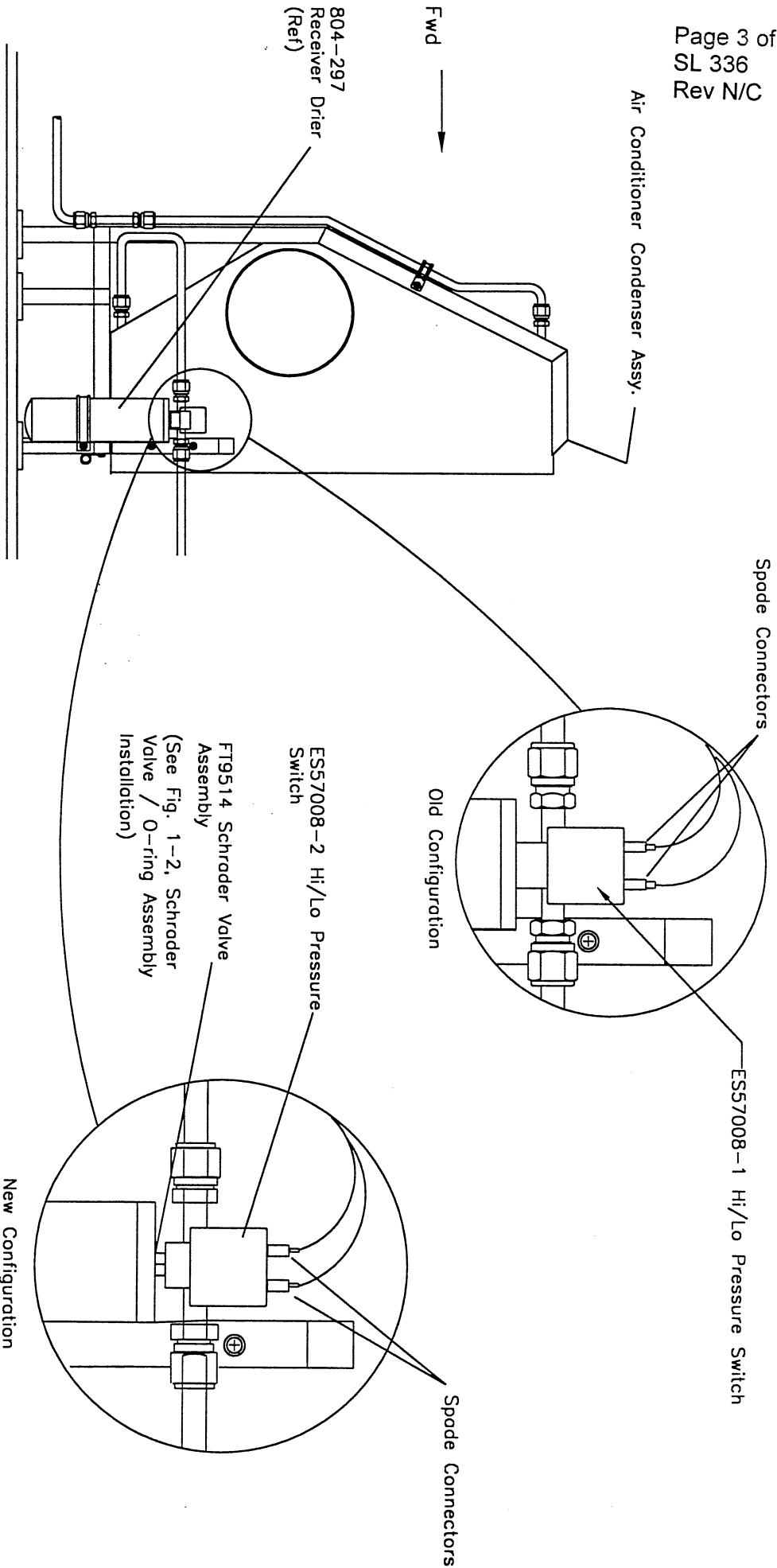


Fig 1-1, View Looking Inboard From Aircraft Right.

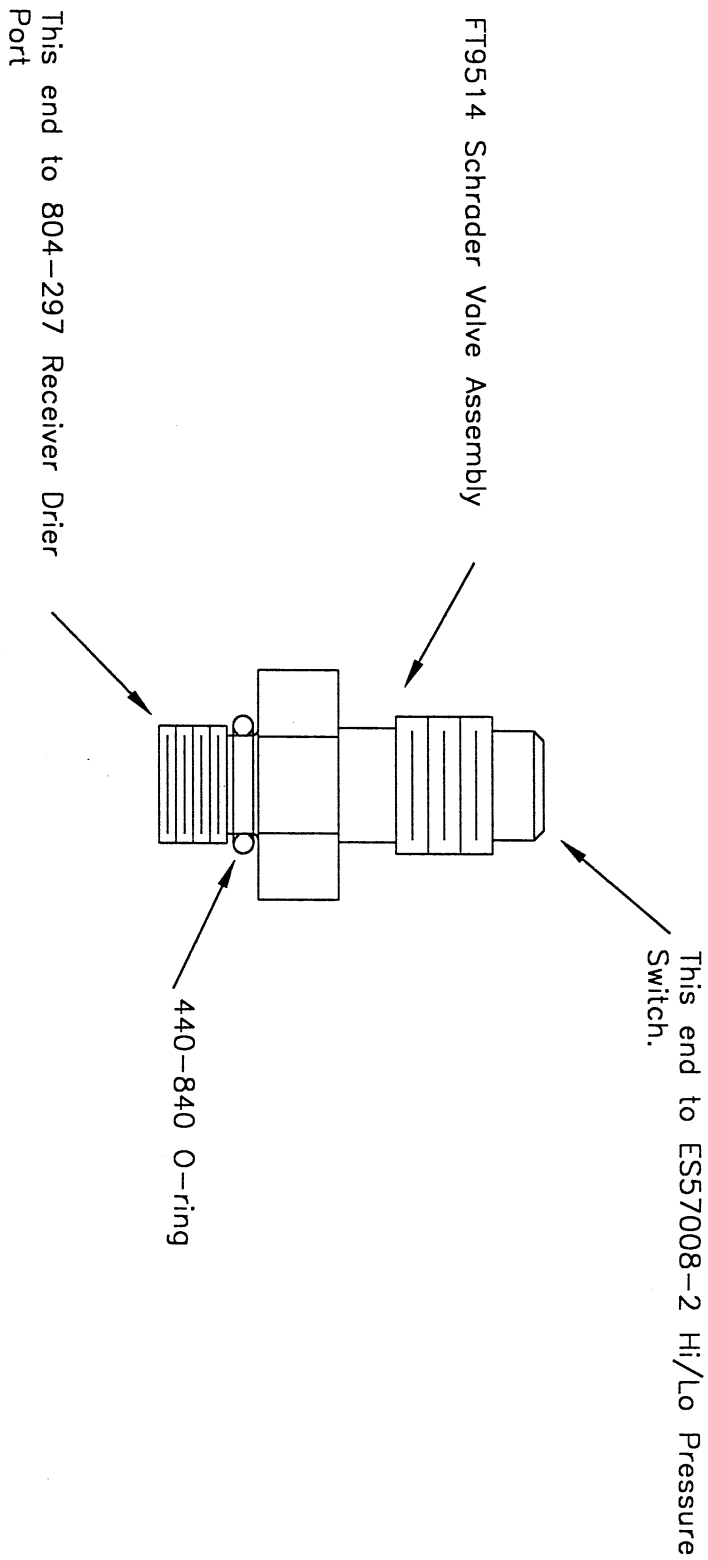


Fig. 1-2, Schrader Valve / O-ring
Assembly Installation

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