



ZEE Systems, Inc.
AIRCRAFT AIR CONDITIONING and
HEATING SYSTEMS

SERVICE LETTER 59K-000-1

1. PLANNING INFORMATION

- A. Effectivity: Dassault Falcon 10 aircraft with STC SA4843SW Upgrade Kit P/N: SZ59K-R134 installed. This Service Letter may be incorporated concurrently with original STC equipment installation.
- B. Reason: To modify SZ59K-R134 Kit s installed to upgrade the vapor cycle air conditioning system to use CFC free R-134a refrigerant.
- C. Description: This Service Bulletin gives instructions for reducing the amount of R-134a refrigerant in the Vapor Cycle air conditioning system when installing this upgrade kit.
- D. Compliance: Compliance is recommended.
- E. Approval: This Service Bulletin has been approved by the FAA. Components are FAA-PMA.
- F. Manpower: Time should be allocated to remove panels in the aft baggage compartment to gain access to the service connections. Reduce the original recommended refrigerant amount by .4 lbs (.18 kg) to a total charge of 3.2 lbs. (1.45 kg) of refrigerant.
- G. Material cost and availability: Not applicable.

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H. Equipment and Tooling:

Ground Power Unit (28VDC capable of 120A continuous)	Commercially Available
R-134a Refrigerant	Commercially Available
Poloyl Ester (POE) Oil, Compressor, or LUBRIZOL 2916	Commercially Available
Recovery/Recycle Equipment which meets SAE J1990 or J2209.	Commercially Available
Manifold Gauge Set, R-134a compatible, w/ quick Disconnects.	Commercially Available
Scale .1 lb. Increments (or smaller)	Commercially Available
Leak Detector for R-134a	Commercially Available



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Vacuum Pump, refrigerant

Commercially Available

- I. Weight and Balance: No effect.
- J. Electrical Load Data: No effect.
- K. References: Refer to Zee Systems, Inc. Service Bulletin 59-000-1.

II ACCOMPLISHMENT INSTRUCTIONS

- A. Preparation: Accomplished in a clean, dry area free of oil, dirt, moisture and other contamination.

CAUTION

The air conditioning system is under pressure. Appropriate safety measures should be taken when servicing this equipment. Only trained personnel with safety equipment should perform these duties.

NOTE

It is unlawful to release R-12 to the atmosphere. Use approved Recovery/Recycle equipment to capture the R-12 refrigerant. Use only lawful means to dispose of the recovered R-12. Check with local agencies for approved disposal procedures.

NOTE

Cap all lines to prevent contaminants and moisture from entering the system.

- B. Disassembly: No disassembly of system is required

NOTE

Standard air conditioning service equipment for mobile R-134a refrigerant system is used for this service. If you are using automatic service equipment some of the steps may be omitted, performed in a different order or combined with other steps. Refer to the operating instructions for the equipment you are using. Also, the following steps are recommended. If you have contracted an air conditioning service professional they may have different procedures to perform the same functions.

1. Adjust refrigerant charge to 3.2 lbs. (1.45 kg). This may be done by using recovery equipment to by removing .4 lbs. of refrigerant or by recovering all refrigerant and charging a dry system with 3.2 lbs. (1.45kg) of R-134a refrigerant.

III. SERVICE INSTRUCTIONS

- A. SERVICE: If a complete evacuation of the system has been performed service the system in accordance with ZEE Systems, Inc. Service Bulletin SZ59-001, Rev. 3, 6-29-01.