



**ZEE Systems, Inc.**  
**AIRCRAFT AIR CONDITIONING and**  
**HEATING SYSTEMS**

***SERVICE BULLETIN 59-000-2***

I. PLANNING INFORMATION

- A. Effectivity: Dassault Falcon 10 aircraft which have installed R-134a Upgrade Kit SZ59K-R134 before April 15, 2004.
- B. Reason: Re-route the No. 8 Discharge flex line under the No. 10 Suction flex line at the compressor.
- C. Description: This Service Bulletin gives instructions to re-route the flex lines.
- D. Compliance: Compliance is recommended if you are experiencing compressor head gasket problems. Perform at next service when the system refrigerant is discharged. Service Bulletin 59-000-1, Rev. 7 includes this change.
- E. Approval: This Service Bulletin does not effect any FAA approvals or certifications.
- F. Manpower: Labor is estimated to be an additional 0.5 man-hours over the time to discharge and charge the system.
- G. Material cost and availability: No additional parts are required to comply with this service bulletin. The SZ59-050-1(X) Receiver-Dryer (Reservoir, Tank) should be replaced as routine maintenance item anytime the system is opened to the atmosphere. The end user is responsible for all cost.
- H. Equipment and Tooling: Refer to ZEE Systems, Inc Service Bulletin 59-000-1 for service instructions.
- I. Weight and Balance: No effect.
- J. Electrical Load Data: No effect.

References: Refer to ZEE Systems, Inc Service Bulletin 59-000-1 for servicing instructions.

II ACCOMPLISHMENT INSTRUCTIONS

**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.*



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1. Re-route the flex lines as follows:

- a. Disconnect the SZ58-2008 No. 8 (discharge) flex line at the compressor. This line runs from the compressor toward the condenser (runs to the aft). (Refer to Falcon 10 IPC 21-52-01, item -305). You may also need to loosen the B-nut at the pressure switch.
- b. Disconnect the SZ58-20010 No. 10 (suction) flex line at the compressor. This line runs from the compressor toward the evaporator (runs forward). (Refer to Falcon 10 IPC 21-52-01, item -255). See flushing instructions B, 1., b.
- c. (Recommended) Replace the SZ59-050-1 Receiver-Dryer (Reservoir, Tank). (Refer to Falcon 10 IPC 21-52-01, item -285).
- d. On the top of the compressor align the No. 8 Discharge fitting ZEE P/N: 022-21960M as required to fit the hose to the compressor. Snug the bolt down; do not tighten at this time.
- e. Connect Hose Assembly P/N: SZ59-2008-1 to the compressor Apply a light film of refrigerant oil to the O-Ring to help seating. **Route this Hose under the No. 10 Suction Hose** at the compressor. Create as much of a downward loop in the flex line just before the compressor as possible. Tighten the hose B-nut connection at the pressure switch. Tighten the bolt holding the 022-21960M fitting on the compressor. Use a 5/16 12 point socket. Torque the 5/16 torx-head bolt to 17-25 ft.-lb. (23.0-33.9 N-m).
- f. Connect and align Hose Assembly P/N: SZ59-20010-1 to the compressor **Route this Hose over the No. 8 Discharge Hose**. Apply a light film of refrigerant oil to the O-Ring to help seating.
- g. Tighten all connections. Torque the two 5/16 torx-head bolts on the compressor fittings to 17-25 ft.-lb. (23.0-33.9 N-m).

2. Check: Check the system for leaks.

3. Service the system with refrigerant. Refer to ZEE Systems, Inc. Service Bulletin 59-000-1 for service instructions.

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