



ZEE Systems, Inc.
AIRCRAFT AIR CONDITIONING and
HEATING SYSTEMS

SERVICE BULLETIN 43-R134

1. PLANNING INFORMATION

A. Eligibility:

1. De Havilland DHC-6 Twin Otter aircraft without a ZEE Systems Vapor Cycle Air Conditioning System and,
2. De Havilland DHC-6 Twin Otter aircraft currently modified in accordance with STC SA4622SW (Metro Airlines (Zee Systems) Air Conditioner) using R-12 refrigerant. Also, alternate installations which have relocated the MCC from the cabin to the baggage compartment

B. Reason: To modify the system to use CFC free R-134a refrigerant.

C. Description: This service bulletin gives instructions for converting the basic plumbing of the Vapor Cycle Air Conditioning system from R-12 (Freon) to EPA approved R-134a refrigerant.

1. New Installation: For new installations modify aircraft in accordance with STC SA4622SW. Refer to DWG SZ43-R134 for parts to be substituted. Service system with R-134a refrigerant in accordance with this service bulletin.

2. Upgrade of existing system: This conversion consists of flushing the condenser coils, flushing the evaporator coils, flushing the expansion valve, minor structural changes, parts replacement and servicing the system with R-134a refrigerant in accordance with this service bulletin.

D. Compliance: Compliance is optional.

E. Approval: This service bulletin contains no modification data that changes the fit, form or function of the original design and therefore does not require any additional approvals. There are no changes to the F.A.A. Approved Flight Manual Supplement.

F. Manpower:

1. New Installation: When incorporating this service bulletin during new installation no additional man hours are required over the normal installation time.

2. Upgrade of existing system: No man hour estimates are available at this time. This upgrade will require the Compressor, Receiver Dryer, Modulator Valve, and all plumbing be exposed for removal and replacement. This will require the floor and seat tracks over these components be removed. See DWG MA150 for detail.

G. Material Cost and Availability: Refer to Section 5 for a detailed listing of parts and materials required to accomplish the modification procedures outlined in this service bulletin. The required parts, materials, equipment and pricing is available from:

ZEE SYSTEM, Inc.
P.O. BOX 791165
SAN ANTONIO, TX 78279-1165



ZEE Systems, Inc.
AIRCRAFT AIR CONDITIONING and
HEATING SYSTEMS

SERVICE BULLETIN 43-R134

1-800-988-COOL⁽²⁶⁶⁵⁾

FAX (210) 349-9208

H. Equipment and Tooling:

Flushing Equipment,
Pulsator II,
or similar equipment

J.A. Echols and Assoc.
Norcross, GA 30071
(404) 263-9119

Mineral Spirits

Commercially Available

Nitrogen Bottle

Commercially Available

Source for dry shop air.

** Equipment used in Discharging and Charging the system.

Refrigerant Recovery/Recycle Equipment
meeting SAE J1990 or J2209 specifications.

Commercially Available

Manifold Gauge Set, with hoses
R-134a compatible

Commercially Available

Scale .1 lb. increments

Commercially Available

Leak Detector

Commercially Available

Vacuum Pump

Commercially Available

I. Weight and Balance: No effect.

J. Electrical Load Data: No effect.

K. References: Refer to Maintenance and Parts Manual SZ43-000, Motor Compressor Condenser Assembly for basic disassembly and assembly instructions. Disregard references to R-12 servicing instructions. Refer to this service bulletin for R-134a servicing instructions.

2. INSTRUCTIONS FOR UPGRADING EXISTING R-12 SYSTEM.

NOTE:

MOTOR COMPRESSOR CONDENSER ASSY P/N: SZ43-002-1ABC MAY BE RETURNED TO ZEE SYSTEMS FOR MODIFICATION. INSTRUCTIONS OUTLINED BELOW INCLUDE STEPS FOR FIELD MODIFICATIONS.



ZEE Systems, Inc.
AIRCRAFT AIR CONDITIONING and
HEATING SYSTEMS

SERVICE BULLETIN 43-R134

A. Preparation: The replacement of components should be accomplished in a clean, dry area free of oil, dirt, moisture and other contamination.

B. Disassembly: Disassemble the system only to a state which will allow the flushing of components described in section C and the substitution of the components listed in DWG SZ43-R134. Remove components listed in section 3, "Old Part Number".

NOTE:

IT IS UNLAWFUL TO RELEASE R-12 TO THE ATMOSPHERE. USE APPROVED RECOVERY/RECYCLE EQUIPMENT TO CAPTURE THE R-12. USE ONLY LAWFUL MEANS TO DISPOSE OF RECOVERED R-12. CHECK WITH LOCAL AGENCIES FOR APPROVED DISPOSAL PROCEDURES.

CAUTION:

SYSTEM UNDER PRESSURE. APPROPRIATE SAFETY MEASURES SHOULD BE TAKEN WHEN SERVICING THIS EQUIPMENT. ONLY TRAINED PERSONNEL WITH SAFETY EQUIPMENT SHOULD PERFORM THESE DUTIES.

NOTE:

CAP ALL LINES TO PREVENT CONTAMINANTS AND MOISTURE FROM ENTERING THE SYSTEM.

1. Compressor: Disconnect lines to the compressor and remove the compressor from the compressor plate. Remove the pulley from the compressor. Discard compressor.
2. Disconnect line from the discharge (DISCH) port of the compressor to the top of the condenser, Discard.
3. Remove union from inlet (top) of condenser coil, Discard.

NOTE: On new installations disregard steps 1 through 3 above.

NOTE:

ALL COMPONENTS OR LINES WHICH CARRY REFRIGERANT MUST BE FLUSHED OR REPLACED.

C. Flushing:

1. Condenser Coil: With all lines to and from the coil disconnected perform the following steps:
 - a. Fill flushing equipment with Mineral Spirits in accordance with manufacturers instructions.
 - b. With the inlet line to the condenser removed use a suitable adapter to connect the flushing equipment to the coil. Attach a suitable reservoir to the outlet side of the coil to capture the dirty flushing fluid. Flush the coil in accordance the flushing equipment manufacturers instructions. Continue to flush until clean fluid flows from outlet.



ZEE Systems, Inc.
AIRCRAFT AIR CONDITIONING and
HEATING SYSTEMS

SERVICE BULLETIN 43-R134

c. Blow nitrogen through the coil until the inner tubes are dry.

2. Evaporator Coil: With all lines to and from the coil disconnected perform the following steps:

a. Disconnect and set aside the expansion valve.

b. Fill flushing equipment with Mineral Spirits in accordance with manufacturers instructions.

c. With the expansion valve removed use a suitable adapter to connect the flushing equipment to the coil. Attach a suitable reservoir to the outlet side of the coil to capture the dirty flushing fluid. Flush the coil in accordance the flushing equipment manufacturers instructions. Continue to flush until clean fluid flows from outlet.

c. Blow nitrogen through the coil until the inner tubes are dry.

3. Expansion Valve: Remove the screen and clean it separately.

1. Use a suitable adapter and connect the expansion valve the flushing equipment and flush the valve until clean fluid flows from the valve.

2. Using low pressure blow nitrogen through the valve until dry.

3. Install the screen back in the expansion valve.

4. Connect the valve to the flushed evaporator coil.

D. Structural: The only structural modification from the original STC installation is to change the hole diameter for line through F.S. 301.57, F.S. 321.6, and F.S. 332.0 from .875" to 1.00". Refer to DWG MA150 #3. Refer to DWG SZ54-R134P for alternate installations.

E. Assembly: Install and adjust components in accordance with the SZ43-000 Maintenance Manual.

1. Attach pulley on new compressor (SZ84-913TJ-1). Install new compressor on mounting plate and adjust belts.

2. Attach Union (DS200U137-8) to condenser inlet (top).

3. Connect Hose (Z2006000BC192) with 90 degree fitting to the discharge (DISCH) port of the compressor and the other end to the top of the condenser.

NOTE: Disregard steps 1 through 3 for new installation, Connections are made at the factory.

4. Reinstall all items which were removed for flushing in their normal configuration.

F. Modification: Modification occurs when structural change is made, all components are flushed and new components (Kit K43-R134, K54-R134-1) are installed on the aircraft.



ZEE Systems, Inc.
AIRCRAFT AIR CONDITIONING and
HEATING SYSTEMS

SERVICE BULLETIN 43-R134

3. INSTRUCTIONS FOR INSTALLATION OF KIT K43-R134.

1. Refer to DWG 43-R134 and install listed components in accordance S.T.C. SA4622SW drawings.

NOTE:

USE A BACKUP WRENCH WHEN TIGHTENING FITTINGS. DO NOT OVER TIGHTEN.

4. SERVICING THE SYSTEM:

A. Service Port Location: The service ports are relocated to the aft baggage compartment just to the right and below the evaporator assembly.

B. Servicing Instructions: The servicing instructions are basically the same as with an R-12 system. However, **A SIGHT GLASS IS NOT USED TO DETERMINE ADEQUATE REFRIGERANT CHARGE.** The system is charged with a predetermined amount (by weight) of refrigerant.

NOTE:

IF YOU ARE USING SERVICING EQUIPMENT THAT CAN BE SET TO DISPENSE A PRESET AMOUNT OF REFRIGERANT SOME OF THE FOLLOWING STEPS MAY DIFFER SLIGHTLY. REFER TO THE OPERATING INSTRUCTIONS FOR YOUR EQUIPMENT.

1. Evacuate the system for a minimum of one hour.
2. Weigh the refrigerant bottle.
3. Introduce a total maximum R-134a refrigerant charge (by Weight) of **1.4** lbs. into a dry system using the following procedure:
4. Open the back seating valves on the compressor.
5. Shut OFF all valves in the manifold set. Attach the manifold line to the refrigerant bottle. Attach the High side manifold line to the Pressure service port (compressor) and the Low side manifold line to the Suction service port (modulator valve). Open the valve on the refrigerant bottle.

CAUTION:

NEVER INVERT THE REFRIGERANT BOTTLE SO THE DISCHARGE VALVE IS ON THE BOTTOM. THE REFRIGERANT BOTTLE MUST BE KEPT UPRIGHT TO PERMIT THE ENTRY OF GAS ONLY INTO THE COMPRESSOR. INVERTING THE BOTTLE WILL PERMIT LIQUID TO ENTER THE COMPRESSOR RESULTING POSSIBLE COMPRESSOR DAMAGE.

6. With the system NOT RUNNING, OPEN the High Pressure manifold valve and the Low Pressure Manifold valve. Allow the system to take a static charge. When the pressures stabilize or if the maximum charge weight is achieved CLOSE both the High and Low pressure valves at the manifold.
7. Check for leaks.



ZEE Systems, Inc.

AIRCRAFT AIR CONDITIONING and HEATING SYSTEMS

SERVICE BULLETIN 43-R134

8. With the High and Low pressure valves shut off, turn ON the compressor motor and evaporator blowers. OPEN the Low pressure manifold valve until the Low pressure gauge reads 30 pounds pressure. Keep close watch on the scale and continue to charge the system. When the target weight is reached immediately CLOSE the Low pressure valve. The system should be fully charged. Disconnect the servicing equipment.

F. Testing: Check the system in accordance with your normal certification and return to service specifications.

G. Reidentification: For R-12 systems that have been upgraded, stamp or etch "R134" behind the serial number on the data plate. Make appropriate log book entries.

5. MATERIAL INFORMATION

Parts and materials required are listed below. Quantities are for one aircraft.

1. Modification Kit P/N: K43-R134. The kit contains the following parts:

QTY	Part Number	Description	Old Part Number - Disposition
1	**SZ84-913TJ-1	Compressor	SCF206T-21905 - Discard CR206R - Discard CF206R - Discard
1	**Z2008180BC192	Hose Assy	SZ43-022-1 - Discard SZ43-027-1 - Discard
1	**DS200U137-8	Union	SZ55-035-3 - Discard
1	DS200U137-6	Union	AN919-6D - Discard
1	Z2006AA310	Hose Assy	Z1014000D300 - Discard
1	207-101B	Receiver Dryer	1272200 - Discard 207-101 - Discard
1	Z2006AXA1200	Hose Assy	Z1014000D1200 - Discard
1	DS200U137-64	Union	AN815-6 - Discard
1	SZ54-20010AXCC-1	Hose Assy	MA155-301 - Discard
1	Z20010AC350	Hose Assy	On Optional R-12 INSTL Remove and Discard AN833-8 Fitting and MA155-302 Tube Assy.
1	DS290B-10	Fitting, Blkhd	AN833-8 - Discard
1	Z20010AA350	Hose Assy	Z10110000A340 - Discard
1	SZ41-016-1C	ModulatorValve	SZ43-021-1 - Discard SZ41-016-1 - Discard
1	Z20010AA120	Hose Assy	Z10110000AA120 - Discard
1	DA200A145-108	Adapter, #8FF-#10MIO	



ZEE Systems, Inc.
AIRCRAFT AIR CONDITIONING and
HEATING SYSTEMS

SERVICE BULLETIN 43-R134

4	MS21919WDG12	Clamp	MS21333-72 - Discard
4	MS21919WDG16	Clamp	MS21333-75 - Discard
5	MS21266-1N	Grommet, Cut to length as required.	MS35489-17 - Discard MS35489-23 - Discard

NOTE: At customer request, hose lengths may vary slightly.

** On new installations these come assembled on Motor Compressor Condenser Assy P/N: SZ43-002-1ABC.

*Zee Systems will provide updated Data Plates with kit upon request. User must provide Serial Number of Motor Compressor Condenser Assy and Evaporator Assy being modified when ordering Kit K43-R134 for updated Data Plates.

2. For alternate installations use Kit P/N: K54-R134-1. The kit contains the following parts:

QTY	Part Number	Description
1	Z2006000AA430	Hose Assy
1	Z2006000AC494	Hose Assy
1	Z2006000AA380	Hose Assy
1	Z2006000AC490	Hose Assy
1	Z2008000AA280	Hose Assy
1	Z2008000AA464	Hose Assy
1	Z2008180BCX192	Hose Assy
1	Z20010000AA460	Hose Assy
1	Z20010000AA074	Hose Assy
1	SZ41-016-10.75C	Modulator Valve
1	SZ84-913OP-1	Compressor
1	DS200B-6	Bulkhead Fitting
1	DS200B-108	Bulkhead Fitting
1	DS200E137-8	Elbow Fitting
1	DS200U137-8	Union Fitting
8	MS29775-011	O-Ring
4	MS28775-013	O-Ring
4	MS28775-015	O-Ring
1	207-101B	Reciever-Dryer

NOTE: At customer request, hose lengths may vary slightly.



ZEE Systems, Inc.

AIRCRAFT AIR CONDITIONING and HEATING SYSTEMS

SERVICE BULLETIN 43-R134

PROPRIETARY DATA NOTIFICATION
 THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO ZEE SYSTEMS, INC. DISCLOSURE, REPRODUCTION OR ANY OTHER USE OR DISSEMINATION OF THIS INFORMATION IS FORBIDDEN WITHOUT WRITTEN AUTHORIZATION FROM ZEE SYSTEMS, INC., SAN ANTONIO, TX.

MODIFICATION KIT P/N: K43-R134 CONTAINS THE FOLLOWING ITEMS:

-1 KIT -2 KIT (B1)

QTY	QTY	PART NUMBER	DESCRIPTION
1		(A1) SZ84-913TJ-1	COMPRESSOR
1		(A2) Z2008180BC192	HOSE ASSY
1		DS200U137-8	UNION
1	1	(A3) DS200U137-6	UNION
1	1	Z2006AA310	HOSE ASSY
1	1	(A4) 207-101B ALT P/N 207-101A	REC-DRYER
1	1	Z2006AXA1200	HOSE ASSY
1		DS200U137-64	UNION
1		(A5) SZ54-20010AXCC-1	HOSE ASSY
1	1	(A7) Z20010AC350	HOSE ASSY
1	1	DS290B-10	FITTING, BLKHD
1	1	Z20010AA350	HOSE ASSY
1	1	(A8) SZ41-016-1C	MODULATOR VAL
1	1	Z20010AA100	HOSE ASSY
1	1	(C1) DS200A145-108	ADAPTER
4	4	(C2) MS21919WDG12	CLAMP
4	4	(C3) MS21919WDG16	CLAMP
5	5	MS21266-1N	GROMMET
	1	(A9) SZ54-002-2	EVAPORATOR ASSY
	1	SZ54-20010-AXCC-2	HOSE ASSY
1	1	43-R134	SERVICE BULLETIN

LIST OF REVISIONS			
REV	DESCRIPTION	DATE	APPVD
IR	INITIAL RELEASE	2-23-95	KJZ
A	REDRAW WITH THE FOLLOWING CHANGES: 1. CHANGE P/N: NOW: SZ84-913TJ-1, WAS: SZ84-913OP-1. 2. CHANGE P/N: NOW: Z2008180BC192, WAS: Z2008000BC192. 3. CHANGE P/N: NOW: DS200U137-6, WAS: DS200U137-65. 4. ADD ALTERNATE P/N: 207-101B FOR 207-101A. 5. CHANGE P/N: NOW: SZ54-20010AXCC-1, WAS: MA155-302. 6. DELETE: DS200U137-108. 7. CHANGE P/N: NOW: Z20010AC350, WAS: Z20010CXA284. 8. CHANGE P/N: NOW: SZ41-016-1C, WAS: SZ41-016-1B.	8-25-00	KJZ
B	1. ADD -2 KIT TO F.D.	8-26-00	KJZ
C	1. CHANGE: NOW DS200A145-108, WAS 920-2809. 2. CHANGE: NOW MS21919WDG12, WAS MS21919-12. 3. CHANGE: NOW MS21919WDG16, WAS MS21919-16.	11-14-02	KJZ

PART NO.	NAME	STOCK SIZE	MATERIAL	MAT'L SPEC	
LIST OF MATERIAL					
NO. REQ'D. PER ASSY	UNLESS OTHERWISE NOTED	DRAWN BY	TITLE		
	X+/- .060	K.ZAIONTZ	2-23-95	KIT, MODIFICATION P/N: K43-R134	
	.XX+/- .030	CHECK	K.PAULEY		2-23-95
	.XXX+/- .010	STRESS			
		ENGR		DWG NO. 11X17	
DWG NO.	SCALE	N/A	SHT 1 OF 1	REV	
				ZEE SYSTEMS, INC. 406 W. Rtepsody San Antonio, TX 78216 USA	
				SZK43-R134 C	

**SB43-R134
FEB 1995**

**REV. 4
11-14-02**



ZEE Systems, Inc.

AIRCRAFT AIR CONDITIONING and HEATING SYSTEMS

SERVICE BULLETIN 43-R134

DATE 11-27-01	ENGINEERING ORDER	EO NUMBER K43-R134-1																																																												
WRITTEN BY: K.ZAIONTZ	<i>ZEE Systems, Inc. San Antonio, TX USA</i>	SHEET 1 of 1																																																												
APPROVED BY: K.ZAIONTZ	DRAWING AFFECTED: SZK43-R134																																																													
REASON FOR CHANGE(S): R-134 UPGRADE KIT FOR ALTERNATE MCC INSTALLATIONS																																																														
SOME STC 5A46225W INSTALLATIONS HAVE RELOCATED THE MCC TO THE BAGGAGE COMPARTMENT. TO UPGRADE TO R-134g REFRIGERANT FOR THESE INSTALLATIONS USE KIT P/N: K04-R134-1.																																																														
MODIFICATION KIT SZ54-R134-1 CONTAINS THE FOLLOWING ITEMS:																																																														
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">QTY</th> <th style="text-align: left;">PART NUMBER</th> <th style="text-align: left;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1EA</td><td>Z2006000AA430</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2006000AC484</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2006000AA390</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2006000AC490</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2009000AA290</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2006000AA484</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2009180BCX182</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2001000AA480</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>Z2001000AA074</td><td>HOSE ASSY</td></tr> <tr><td>1EA</td><td>SZ41-01B-10.75C</td><td>MODULATOR VALVE</td></tr> <tr><td>1EA</td><td>SZ84-9130P-1</td><td>COMPRESSOR</td></tr> <tr><td>1EA</td><td>D6200B-8</td><td>BULKHEAD</td></tr> <tr><td>1EA</td><td>D6200B-10B</td><td>BULKHEAD FITTING</td></tr> <tr><td>1EA</td><td>D6200E137-8</td><td>ELBOW FITTING</td></tr> <tr><td>1EA</td><td>D6200U137-8</td><td>UNION FITTING</td></tr> <tr><td>8EA</td><td>MS28775-011</td><td>O-RING</td></tr> <tr><td>4EA</td><td>MS28775-013</td><td>O-RING</td></tr> <tr><td>4EA</td><td>MS28775-015</td><td>O-RING</td></tr> <tr><td>1EA</td><td>207-101B</td><td>RECEIVER-DRYER</td></tr> </tbody> </table>			QTY	PART NUMBER	DESCRIPTION	1EA	Z2006000AA430	HOSE ASSY	1EA	Z2006000AC484	HOSE ASSY	1EA	Z2006000AA390	HOSE ASSY	1EA	Z2006000AC490	HOSE ASSY	1EA	Z2009000AA290	HOSE ASSY	1EA	Z2006000AA484	HOSE ASSY	1EA	Z2009180BCX182	HOSE ASSY	1EA	Z2001000AA480	HOSE ASSY	1EA	Z2001000AA074	HOSE ASSY	1EA	SZ41-01B-10.75C	MODULATOR VALVE	1EA	SZ84-9130P-1	COMPRESSOR	1EA	D6200B-8	BULKHEAD	1EA	D6200B-10B	BULKHEAD FITTING	1EA	D6200E137-8	ELBOW FITTING	1EA	D6200U137-8	UNION FITTING	8EA	MS28775-011	O-RING	4EA	MS28775-013	O-RING	4EA	MS28775-015	O-RING	1EA	207-101B	RECEIVER-DRYER
QTY	PART NUMBER	DESCRIPTION																																																												
1EA	Z2006000AA430	HOSE ASSY																																																												
1EA	Z2006000AC484	HOSE ASSY																																																												
1EA	Z2006000AA390	HOSE ASSY																																																												
1EA	Z2006000AC490	HOSE ASSY																																																												
1EA	Z2009000AA290	HOSE ASSY																																																												
1EA	Z2006000AA484	HOSE ASSY																																																												
1EA	Z2009180BCX182	HOSE ASSY																																																												
1EA	Z2001000AA480	HOSE ASSY																																																												
1EA	Z2001000AA074	HOSE ASSY																																																												
1EA	SZ41-01B-10.75C	MODULATOR VALVE																																																												
1EA	SZ84-9130P-1	COMPRESSOR																																																												
1EA	D6200B-8	BULKHEAD																																																												
1EA	D6200B-10B	BULKHEAD FITTING																																																												
1EA	D6200E137-8	ELBOW FITTING																																																												
1EA	D6200U137-8	UNION FITTING																																																												
8EA	MS28775-011	O-RING																																																												
4EA	MS28775-013	O-RING																																																												
4EA	MS28775-015	O-RING																																																												
1EA	207-101B	RECEIVER-DRYER																																																												
REFER TO ZEE SYSTEMS, INC. DWG SZ54-R134P.																																																														



ZEE Systems, Inc.

AIRCRAFT AIR CONDITIONING and HEATING SYSTEMS

SERVICE BULLETIN 43-R134

PROPRIETARY DATA NOTIFICATION

THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO ZEE SYSTEMS, INC. DISCLOSURE, REPRODUCTION OR ANY OTHER USE OR DISSEMINATION OF THIS INFORMATION IS FORBIDDEN WITHOUT WRITTEN AUTHORIZATION FROM ZEE SYSTEMS, INC., SAN ANTONIO, TX.

REV	DESCRIPTION	DATE	APP'D
B	1. ADD -2 KIT AND COMPONENTS TO F/D & L/M	11-1-00	KJZ
C	1. CHANGE: NOW DS200A145-10B, WAS 920-2609 2. CHANGE: NOW MS21919VDG12, WAS MS21919-12 3. CHANGE: NOW MS21919VDG16, WAS MS21919-16.	11-14-02	KJZ

REV	DESCRIPTION	DATE	APP'D
IR	INITIAL RELEASE	2-25-95	KJZ
A	REDRAWN WITH THE FOLLOWING CHANGES: 1. CHANGE PIN: NOW: SZ24-913TJ-1, WAS: SZ24913OP-1. 2. CHANGE PIN: NOW: Z2008180BC192, WAS: Z2008000BC192. 3. ADD ALTERNATE PIN: 207-101B, WAS: 207-101A. 4. CHANGE PIN: NOW: SZ54-20010AXCC-1, WAS: MA155-302. 5. DELETE: DS200U137-10B 6. CHANGE PIN: NOW: Z20010AC350, WAS: Z20010CXA284. 7. CHANGE PIN: NOW: SZ41-016-1C, WAS: SZ41-016-1B. 8. ADD (ITEM 19) 920-2609 TOLM & F.D. 9. DELETE NOTE 4.	8-25-00	KJZ

NOTES:

- TO MODIFY R-12 SYSTEM (STC SA4622SW) TOR-134a INSTALL ITEMS 1 THROUGH 19 IN ACCORDANCE WITH ZEE SYSTEMS SERVICE BULLETIN 43-R134.
- FOR NEW INSTALLATIONS OF STC SA4622SW USING R-134a REFRIGERANT, REFER TO SB43-R134 FOR INSTRUCTIONS TO INSTALL ITEMS 1 THROUGH 19.

ⓐ CONNECT HOSE ASSY (7) WITH SERVICE PORT TO THE EVAPORATOR INLET.

ⓑ CONNECT HOSE ASSY (11) WITH SERVICE PORT TO TUBE ASSY (MA155-302). (A9)

NS					
NS	1	1	43-R134	SERVICE BULLETIN (REFERENCE)	N/A
NS	1	1	K43-R134	KIT, MODIFICATION (REFERENCE)	SZK43-R134
21	ⓑ	1	SZ54-20010AXCC-2	HOSE ASSY	SZ54-2210
20		1	SZ54-002-2	EVAPORATOR ASSY	SZ54-002
19		1	DS200A145-10B	ADAPTER, #8FF-#10IMO	SZ54-002
18		5	MS21266-1N	GRCMMET	MA150H3
17		4	MS21919VDG16	CLAMP	MA150H2 & #4
16		4	MS21919VDG12	CLAMP	MA150H2 & #4
15		1	Z20010AB100	HOSE ASSY	Z200
14		1	SZ41-016-1C	MODULATOR VALVE	SZ41-016
13		1	Z20010AA350	HOSE ASSY	Z200
12		1	DS290B-10	FITTING, BULK-HEAD	DS290B
11		1	Z20010AC350	HOSE ASSY	Z200
10		1	DS200U137-10B	UNION	DS200
9		1	SZ54-20010AXCC-1	HOSE ASSY	SZ54-20010
8		1	DS200U137-6H	UNION	DS200U137
7		1	Z2006AXA1200	HOSE ASSY	Z200
6		1	207-101B	RECEIVER-DRYER	SZ207
5		1	Z2006AA310	HOSE ASSY	Z200
4		1	DS200U137-6	UNION	DS200U137
3		1	DS200U137-8	UNION	DS200U137
2		1	Z2008180BC192	HOSE ASSY	Z200
1		1	SZ24-913TJ-1	COMPRESSOR	Z900

REV	QTY	PART NO.	NAME	STOCK SIZE	MATERIAL	DWG NO.

LIST OF MATERIAL				TITLE		
UNLESS OTHERWISE NOTED	DRAWN BY	KZAIONTZ	2-25-95	MODIFICATION OF STC SA4622SW		
CHECK	K PALLEY	2-25-95				
ENGR						
DWG SIZE	11X17	SCALE	NA	DWG NO.	SHT 1 OF 1	
ZEE SYSTEMS, INC. <small>406 W. Rhapsody San Antonio, TX 78216 USA</small>				DWG NO.	SZ43-R134	
				REV	C	



ZEE Systems, Inc.

AIRCRAFT AIR CONDITIONING and HEATING SYSTEMS

SERVICE BULLETIN 43-R134

