

ENGINEERING MEMO #246

TO: Memo Distribution  
FROM: B. Lewis  
SUBJECT: AEROBUS A/C REAR EVAPORATOR HOSE AND TUBE REVISION

Effective with the depletion of our present stock of purchased 643625 and 643626 Tube Assemblies, Aerobus Rear Evaporator Inlet and Outlet, the following revision will be incorporated on all A-12W6 and A-12W8 Dual Air Conditioning installations:

- A. The present refrigerant lines between the (2) tees in the engine compartment and the rear evaporator consisting of (4) rigid tube assemblies and (4) hose assemblies will be replaced by (4) hose assemblies only.
- B. Revised usage of clips and brackets may be required to attach the hose assemblies to the frame.

It is recommended that service replacement of any of the cancelled hoses and tubes be made as follows:

A-12W8 Rear Evaporator Inlet

Use combination of 643688 and 645782 Hose Assemblies to replace combination of 639997 Hose Assem., 635604 Hose Assem., 643625 Tube Assem., and 635622 Tube Assem.

A-12W8 Rear Evaporator Outlet

Use combination of 643699 and 645783 Hose Assemblies to replace combination of 639996 Hose Assem., 635603 Hose Assem., 643626 Tube Assem., and 635623 Tube Assem.

A-12W6 Rear Evaporator Inlet

Use combination of 643688 and 645782 Hose Assemblies to replace combination of 639997 Hose Assem., 635604 Hose Assem., 643625 Tube Assem., and 635626 Tube Assem.

A-12W6 Rear Evaporator Outlet

Use combination of 643699 and 645783 Hose Assemblies to replace combination of 639996 Hose Assem., 635603 Hose Assem., 643626 Tube Assem., and 635627 Tube Assem.

Also at this time, the routing of the rear evaporator hoses will be revised so as to be common for all Aerobus installation including Folding Rear Seat. This will allow a reduction in the number of parts now released. All cancelled parts should be used with a minimum of obsolescence.

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QTY	NAME	B or M	OLD PART NUMBER	NEW PART NUMBER	I	A	REMARKS
1.	Hose A.-Flex.5/8 Tubing to Tee	B	639996	-----	NO ↔	YES	Hold Surplus for Poss.Future Use
2.	Hose A.-Flex.3/8 Tubing to Tee	B	639997	-----	NO	YES	Hold Surplus for Poss.Future Use
3.	Hose A.-Flex.5/8 Tubing to Tee	B	635603	-----	NO	YES	Hold Surplus for Poss.Future Use
4.	Hose A.-Flex.3/8 Tubing to Tee	B	635604	-----	NO	YES	Hold Surplus for Poss.Future Use
5.	Tube A.-Rr.Evap.Inlet	B	643625	-----	NO	NO	Use W/O Obsoles.
6.	Tube A.-Rr.Evap.Outlet	B	643626	-----	NO	NO	Use W/O Obsoles.
7.	Tube & Nipple A-3/8 O.D.Tubing	M	635622	-----	NO	NO	Serv.or Scrap
8.	Tube & Nipple A-5/8 O.D.Tubing	M	635623	-----	NO	NO	Serv.or Scrap
9.	Tube & Nipple A-3/8 O.D.Tubing	M	635626	-----	NO	NO	Serv.or Scrap
	Tube & Nipple A-5/8 O.D.Tubing	M	636627	-----	NO	NO	Serv.or Scrap
11.	Nipple-3/8 O.D. Copper Tube	B	636923	-----	NO	NO	Hold for Poss. Future Use
12.	Nipple-5/8 O.D. Copper Tube	B	636924	-----	NO	NO	Hold for Poss. Future Use
13.	Tube-3/8 O.D. x 120" Long	M	636907	-----	NO	NO	Use W/O Obsoles.
14.	Tube-5/8 O.D. x 120" Long	M	636908	-----	NO	NO	Use W/O Obsoles.
15.	Tubing-Copper 3/8 O.D. x .035 Wall	B	MQ-101	-----	NO	NO	Return Surplus to Vendor for Credit
16.	Tubing-Copper 5/8 O.D. x .035 Wall	B	MQ-102	-----	NO	NO	Return Surplus to Vendor for Credit
17.	Loom Refrig.Tubing 6"	M	636909	-----	NO	YES	Reduce Usage
18.	Hose A.-Dual Rr.Evap.Inlet	B	645782	-----	NO	YES	Increase Use
19.	Hose A.-Dual Rr.Evap.Outlet	B	645783	-----	NO	YES	Increase Use
20.	Hose A.-Rr.Evap.to Hose-Inlet	B	-----	643688	NO	YES	New Part

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ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	I	A	REMARKS
21.	Hose A-Rr.Evap.to Hose-Outlet	B	-----	643699	NO	YES	New Part
22.	Loom-Woven-7/8 I.D. x 1" O.D.	B	MC-107	-----	NO	YES	Reduce Usage
23.	Tube-3/8 O.D. x 85-3/4" Long	M	636927	-----	NO	NO	Use W/O Obsoles.
24.	Tube-5/8 O.D. x 85-3/4" Long	M	636928	-----	NO	NO	Use W/O Obsoles.
25.	Grommet-Rr.Flr.Pan Filler RH	M	636922	-----	NO	YES	Serv.or Scrap
26.	Shroud-Hose Lower	B	636906	-----	NO	YES	Use W/O Obsoles.
27.	Shroud-Hose Lower-Spec.	M	640711	-----	NO	YES	Revise Usage
28.	Spring A.-Rr.Seat Cush.	M	643586	-----	NO	YES	Use W/O Obsoles.
29.	Spr.A.-Rr.Seat Cush.Forward	M	643033	-----	NO	YES	Revise Usage
30.	Reinf.-Rr.St.Cush.Rr.Frame	M	644037	-----	NO	YES	Scrap
31.	Grommet-Rr.Flr.Pan-A/C with Folding Seat	M	640714	-----	NO	YES	Serv.or Scrap
32.	Mldg.-Hose Lower Shroud	M	640712	-----	NO	YES	Revise Usage
33.	Grommet-Aux.Flr.Side Supt.	M	640713	-----	NO	YES	Revise Usage
34.	Gusset A-St.Back Fwd-Spec.RH	M	643648	-----	NO	YES	Use W/O Obsoles.
35.	Gusset A.-St.Back Fwd.	M	635364	-----	NO	YES	Revise Usage
36.	Panel A-Fixed St.Bk.Fwd-Spec.	M	635611	-----	NO	YES	Use W/O Obsoles.
37.	Panel A-Fixed St.Bk.Fwd.	M	643530	-----	NO	YES	Revise Usage
38.	Filler-Rr.Pillar to Pan-Spec.RH	M	636916	-----	NO	YES	Use W/O Obsoles.
39.	Filler-Rr.Pillar to Pan-Rr.	M	636462	-----	NO	YES	Revise Usage
40.	Pan-Rr.Flr.A/C W/Folding Seat	M	640696	-----	NO	YES	Revise Usage
41.	Screw & Washer A-#8 x 3/4 OHCR Tapp. (#6 Hd.)	B	626456	-----	NO	YES	Revise Usage
42.	Grommet-Defroster Hose	B	632088	-----	NO	YES	Revise Usage
43.	Seal-Fuel Tank Filler Neck to Rear Floor	B	94639	-----	NO	YES	Revise Usage

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EM	NAME	B or M	OLD PART NUMBER	NEW PART NUMBER	I	A	REMARKS
44.	Clip-3/8 Open 9/32 Bolt Hole	B	626531	-----	NO	YES	Serv.or Scrap
45.	Clip-5/8 Open 9/32 Bolt Hole	B	626535	-----	NO	YES	Serv.or Scrap
46.	Screw - 1/4-28 x 1/2 Hex.Hd.Tapp	B	448655	-----	NO	YES	Serv.or Scrap
47.	Clip-5/16 Double Closed	B	626532	-----	NO	YES	Increase Usage
48.	Screw-5/16-18x5/8 Hex.Hd.Tapp.	B	448665	-----	NO	YES	Increase Usage
49.	Clamp Assem.-Adj.Hose	B	95649	-----	NO	YES	Hold For Poss. Future Use
50.	Clamp Assem.-Adj.Hose	B	703240	-----	NO	YES	Reduce Usage
51.	Tube & Nipple A.-5/8 O.D.Tubing	M	639821	-----	NO	NO	Use W/O Obsoles.
52.	Tube & Nipple A.-5/8 O.D.Tubing	M	639822	-----	NO	NO	Use W/O Obsoles.
53.	Tube & Nipple A.-3/8 O.D.Tubing	M	639823	-----	NO	NO	Use W/O Obsoles.
54.	Tube & Nipple A.-3/8 O.D.Tubing	M	639824	-----	NO	NO	Use W/O Obsoles.
	Tube-5/8 O.D. x 96" Long	M	640720	-----	NO	NO	Use W/O Obsoles.
56.	Tube-5/8 O.D. x 130" Long	M	640721	-----	NO	NO	Use W/O Obsoles.
57.	Tube-3/8 O.D. x 96" Long	M	640722	-----	NO	NO	Use W/O Obsoles.
58.	Tube-3/8 O.D. x 130" Long	M	640723	-----	NO	NO	Use W/O Obsoles.
59.	Gasket-Copper 5/8" B-2	B	626562	-----	NO	YES	Serv.or Scrap
60.	Screw-#8 x 3/8 PHCR Tapp.	B	163158	-----	NO	YES	Reduce Usage
61.	Cover-Rr.Pillar to Pan Filler	M	640728	-----	NO	NO	Serv.or Scrap

NOTE: Temporarily until new parts are available and to reduce obsolescence of other related items the following substitutions will be made:

Temporarily Use

626838 Connector W/Gaskets - 5/8-18 female  
flare for 3/8" tube  
643195 Hose A.-Frt.Evap.Inlet  
4326 Union - 7/8-14 Male flare for 5/8" tube  
316 Hose A.-Evap.to Tee

In Place Of

643625 Tube A.-Rear Evap.Inlet  
643626 Tube A.-Rear Evap.Outlet