

ENGINEERING MEMO #99

March 26, 1965

Revised 4-21-65

Revised 6-14-65

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TO: Memo Distribution

FROM: S. Wilson

SUBJECT: NEW FRONT EVAPORATOR UNIT FOR AIR CONDITIONING
SYSTEMS FOR A-12 MODELS.

1. A new Front Evaporator Unit with enlarged air outlets incorporated in the housing to increase the efficiency of the Air Conditioning System will be released for all A-12 Models.
2. The air outlet system incorporated in the ends of the instrument Panel will be eliminated.
3. The Refrigerant Inlet and Outlet Tube Assemblies for the Front Evaporator will be eliminated by revising the Evaporator Core to bring the inlet and outlet connections to the Right Hand side of the unit.
4. The mounting of the unit will be revised to mount to the lower flange of the Instrument Panel in place of mounting to the Dash Panel.
5. The Blower mounting will not be revised.
6. The new System should be used for Model A-12, A-12W & A-12E as soon as possible and the balanced old stock used for Model A-12W6 & 8 other than military. See note (8).
7. The attached list indicate the parts to be affected by this change. The remarks indicate the disposition of stock after all balanced stock is used up.
8. This Revision must be incorporated on all Military Aerobus vehicles.

This Revision incorporated on A-12, A-12W, A-12E Chassis
No. 28774 and Aerobus Chassis No. 1516

PART NAME		OLD PART NO.	NEW PART NO.	I	A	REMARKS
BEZEL - Air Conditioner	B	640278	- - -	NO	YES	DECR. USAGE
BUSHING-Air Conditioner Bezel	B	640279	- - -	NO	YES	
SPRING-Air Outlet Retainer	B	640280	- - -	NO	YES	
INSERT-Air Outlet	B	640281	- - -	NO	YES	
NUT-Air Conditioner Bezel Locking	B	640282	- - -	NO	YES	
WASHER-Air Cond Bezel Nut Locking	B	640299	- - -	NO	YES	
AIR COND. ASSEM-Frt. Complete	M	639131	643186	NO	YES	USE
HOUSING ASSEM-Frt Air Cond Complete	M	643132	643189	NO	YES	SERVICE ^{OR} SCRAP
PANEL & BRKT. ASSEM-Core Mtg.	M	639560	- - -	NO	YES	DECR. USAGE
BRKT. & NUT ASSEM.-Core Mtg.	M	639561	- - -	NO	YES	
BRKT. -Core Mtg. Panel-Upper	M	640319	- - -	NO	YES	
BRKT & NUT ASSEM-Core Mtg. Pan. Lwr.	M	639562	- - -	NO	YES	
BRKT. -Core Mtg. Panel - Lower	M	640320	- - -	NO	YES	
PANEL-Core Mtg	M	640321	- - -	NO	YES	
PAN ASSEM-Frt A/C Housing End LH	M	639133	- - -	NO	YES	SERVICE ^{or} SCRAP
PANEL-Frt A/C Housing End LH	M	640390	- - -	NO	YES	
PAN. & NUT ASSEM-Frt. A/C Hsg. End RH	M	639563	- - -	NO	YES	
PANEL - Frt. A/C Hsg. End. RH	M	640324	- - -	NO	YES	
PANEL-Frt. A/C Hsg. - Top	M	640322	- - -	NO	YES	
PANEL & DRAIN ASSEM-Frt. A/C Btm.	M	639565	- - -	NO	YES	
PANEL-Frt. A/C Hsg. -Bottom	M	640326	- - -	NO	YES	
DRAIN-Frt. A/C Hsg.	R	640328	- - -	YES	YES	INCR. USAGE
GROMMET-Defroster Hose	B	632088	- - -	NO	YES	DECR. USAGE
RAFFLE-Frt Air Cond	M	640332	- - -	NO	YES	
CORE ASSEM-Frt. Evap.	B	639041	643193	NO	YES	SERVICE
PLATE-Inlet Tube Cover	M	640089		NO	YES	DECR. USAGE
COVER ASSEM-Frt. A/C Housing	M	639568		NO	YES	SERVICE ^{or} SCRAP
COVER ASSEM-Frt. A/C Welded	M	639569	- - -	NO	YES	
COVER - Frt. A/C Housing	M	640331	- - -	NO	YES	
RAFFLE-Frt. A/C Air Outlet	M	640344	- - -	NO	YES	DECR. USAGE
DOOR - Air Outlet Center	B	640336	- - -	NO	YES	SERVICE ^{OR} SCRAP
BRKT. -Air Outlet Center Door	M	640330	- - -	NO	YES	
PLATE - Air Outlet Door Finish	M	640329	- - -	NO	YES	
WASHER-Wave 1/4 I.D. x 1/2 O.D.	B	626555	- - -	NO	YES	DECR. USAGE
HOSE-Evaporator Drain	B	636853	- - -	YES	YES	INCR. USAGE
BRKT. -Frt. A/C Hsg. Mtg. LH Side	M	640715	- - -	NO	YES	SERVICE ^{OR} SCRAP
BRKT. -Frt. A/C Hsg. Mtg. RH Side	M	640716	- - -	NO	YES	
BRKT-Frt. A/C Hsg. Mtg. Bottom	M	640327	- - -	NO	YES	
DUCT-Blower to Hsg.	B	640354	642719	NO	YES	
HOSE-Defroster 2-1/2"IDx33"Ext.	B	640232	- - -	NO	YES	DECR. USAGE
PAN-Frt Fl. (Checker Air Cond.)	M	640596	642726	NO	YES	REWORK
PANEL-Dash(Checker Air Cond.)	M	640598	642720	NO	YES	REWORK
COVER-Dash Mtg. Heater-Special	M	640352	634794	NO	YES	USE
FLAP & DR. ASSEM-Dash Mtg Heater	M	639081	- - -	NO	YES	
DOOR-Dash Mtg Heater(Air Cond.)	M	640067	634296	NO	YES	
FLAP-Heater Door Air Cond	B	640068	- - -	NO	YES	
COVER- A/C Outlet Hole	B	640365	- - -	NO	YES	SERVICE ^{OR} SCRAP
RETAINER-Instr Panel Hole Cover	M	640367	- - -	NO	YES	
TUBE ASSEM-Frt. Evap. Inlet	B	701257	643195 635881	NO	YES	
TUBE ASSEM-Frt. Evap. Outlet	B	701256	643196 635880	NO	YES	
SCREW-1/4-20 x 5/8 Hex. Ser. Hd.	B	274473				DECR. USAGE
HOSE ASSEM.-Flex. 5/8 Tubing	B	639996	635602	NO	YES	SERVICE ^{OR} SCRAP
HOSE ASSEM.-Flex. 3/8 Tubing	B	639997	635601	NO	YES	SERVICE ^{OR} SCRAP

PART NAME	OLD PART NO.	NEW PART NO.	I	A	REMARKS
HOSE ASSEM-Drier Tube to Evap.In					
Hose	B 701259		NO	YES	DECR. USAGE
HOSE ASSEM-Evap.Outlet Tube to					
Comp.	B 701260		NO	YES	
SCREW-#10-32 x 5/8 PL.HD.MACH.	B 626537		NO	YES	DECR. USAGE
NUT-#10 HEX Lock Palnut	B 626441		NO	YES	
JACK NUT-1/4-20	B 626448		NO	YES	
BOLT-1/4-20 x 1-1/2 Hex. Hd.	B 626569		NO	YES	or SERVICE SCRAP
PANEL-Instr. Lower RH End	M 640226	CHG."C"	YES	YES	USE
PANEL-Instr..Lower LH End	M 642689	CHG."A"	YES	YES	or
UNION-3/8 Tube 45° Flared	B 144323			YES	SERVDCR SCRAP
UNION-5/8 Tube 45° Flared	B 144326			YES	
PANEL-Instr.Lower LH End	M 640889	CHG.			USE
NUT-1/4-20 Ohio Weld	B 626266				DECR. USAGE
SCREW & L/W ASSEM.-1/4-20 x 1/2	B 626449				DECR. USAGE
LOCKWASHER-1/4 Int. Ext.	B 174916				DECR. USAGE
NUT-1/4-20 Hex.	B 120375				INCR. USAGE
TAPE-Refrigeration	B MA-131				DECR. USAGE
SCREW-1/4-20 x 3/8 MACH.	B 137952				INCR. USAGE
SCREW--#8 x 3/8 Tapp.	B 163158				DECR. USAGE
SCREW-1/4-20 x 5/8	B 189129				INCR. USAGE
GROMMET	B 702361				DECR. USAGE
GROMMET	B 626586				DECR. USAGE
GROMMET	B 702324				INCR. USAGE
GROMMET	B 626514				DECR. USAGE
SCREW & L/W ASSEM.	B 626456				INCR? USAGE
WASHER-5/16 I.D. x 7/8 O.D.	B 626322				DECR. USAGE
LOCKWASHER-1/4 x .632 Int.	B 626516				INCR. USAGE
<u>THE FOLLOWING PARTS ARE NEW</u>					
CORE ASSEM-Frt. Evap.	B 639041	643193			
DUCT-Blower to Housing	B 640354	642719			
PANEL-Frt. Evap.Frt.Air Outlet	B	642645			
PLATE-Frt.Evap.Frt.Air Outlet	B	642646			
DEFLECTOR-Frt.Evap.Frt.Air Outlet	B	642647			
RET-Frt.Evap.Frt.Air Outlet Defl.	B	642648			
HOSE ASSEM-Frt.Evap. Inlet	B	643195			
HOSE ASSEM-Frt.Evap.Outlet	B	643196			
PLATE Frt. Evap.Air Outlet Panel	M	642893			
SCREW #8-32 x 1/2 R.H.D.R. Mach	B	155044			INCR. USAGE
EVAP.ASSEM-Air Cond.Frt. Compl.	M 639131	643186			
HSG.ASSEM-Air Cond.Frt.Evap.	M 639132	643189			
PANEL ASSEM-Frt.Evap.Hsg. LH Side	M	643187			
PANEL ASSEM-Frt.Evap.Hsg. RH Side	M	643188			
PANEL-Frt.Evap.Hsg. LH Side	M	642637			
PANEL-Frt.Evap.Hsg. RH Side	M	642638			
ANGLE ASSEM-Frt. Evap. Hsg.	M	643190			
ANGLE-Frt. Evap. Hsg.	M	642639			
PANEL ASSEM.-Frt.Evap.Hsg.Rear	M	643191			
PANEL-Frt.Evap.Hsg. Rear	M	642641			
PANEL ASSEM.-Frt.Evap. Hsg.Frt.	M	643192			
PANEL-Frt.Evap.Hsg.Frt.	M	642642			
BRKT-Frt.Evap.Hsg.Frt.Mtg.	M	642640			
COVER-Frt.Evap. Hsg.	M	642643			
BRKT-Frt.Evap.Hsg.Mtg.-Bot.	M	642644			
PANEL ASSEM.-Frt.Evap.Frt.Air Out	M	643194			
NUT #8-32 Hex.	B	120622			INCR. USAGE
WASHER-7/32 I.D. x 1/2 O.D.	B	120391			INCR. USAGE