

April 20, 1970

Rev.Pg. (3),Pg.(4) Added 5-12-70

Rev.Pg. (2 & 4) 6-9-70

Rev.Pg. (2 & 4); Pg. (5 & 6) Added 7-28-70

Rev.Pg. (2, 5, 6) 8-5-70

ENGINEERING MEMO #277

Rev.Pg. (4 & 6);Pg.(7) Added 9-11-70

Rev.Pg. (4 & 7);Pg.(8) Added 10-15-70

Rev.Pg. (8) 12-4-70

Chas.#'s Added (Pg.8) 3-2-71

Chas.# Added (Pg.8) 4-5-71

TO: Memo Distribution

FROM: B. Lewis

SUBJECT: 1971 MODEL YEAR ENGINE AND MISCELLANEOUS PARTS REVISIONS  
FOR A-12WB AEROBUS BEGINNING OCTOBER 1, 1970

A. To conform with the Federal Standard for Exhaust Emission applicable to new gasoline powered heavy duty vehicles for Model Year 1971 and to conform to the engine source changeover program, the following components will be revised.

1. Engines
2. Engine Accessory Kits
3. A.I.R. Pump (A.I.R. not required for 1971 Models)
4. Carburetors
5. Tune Up Labels
6. Crankcase Vent Hoses and Valves
7. Engine Mountings

B. The following items will also change at this time due to vendors requests and the advisability of a coordinated change with the 1971 Model Year.

1. Steering Column Assemblies

C. The following parts will be affected.

ITEM	NAME	B O M	OLD PART NUMBER	NEW PART NUMBER	I	A	REMARKS
1.	Eng.Asm.-350 V/8 Aero.Std.	B	703574	703773	NO	NO	Use W/O Obsol.
2.	Eng.Asm.-350 V/8 Aero.Auto.	B	703575	703774	NO	NO	Use W/O Obsol.
3.	Kit-Eng.Access.-350 V/8 Aero. W/O A/C	B	703649	703779	NO	NO	Serv.or Scrap Unbal.Stock
4.	Kit-Eng.Access.-350 V/8 Aero. with A/C	B	703650	703780	NO	NO	Serv.or Scrap Unbal.Stock

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"A" Rev. 6-9-70

"B" Rev. 7-28-70

"C" Rev. 8-5-70

ENGINEERING MEMO #277 (Cont'd.)

ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	T	A	REMARKS
	5. V-Belt - 3/8 x 38 <sup>o</sup> x 47.50	B	704499	-----	-	YES	Serv. or Scrap Unbal. Stock
	6. V-Belt - 3/8 x 38 <sup>o</sup> x 44.25	B	704498	-----	-	YES	Increase Usage
A	7. Carb. Asm. - Aerobus	B	703576	703794	NO	YES	Service or Scrap Unbal. Stock
C	8. Hose-Cr/case Vent Vlv. to Carb.	B	704268	-----	-	-	Revise Usage
B	9. Wire Asm. - Cyl. #1, 2 & 3 V/3	B	701173	703818	YES	YES	Use W/O Obsol.
B	10. Wire Asm. - Cyl. #4 V/3	B	701174	703819	YES	YES	Use W/O Obsol.
B	11. Wire Asm. - Cyl. #5, & 6 V/3	B	701175	703820	YES	YES	Use W/O Obsol.
B	12. Wire Asm. - Cyl. #7 V/3	B	701176	703821	YES	YES	Use W/O Obsol.
B	13. Wire Asm. - Cyl. #8 V/3	B	701177	703821	YES	YES	Use W/O Obsol.
	14. Column A. - Strg. Auto. Tr.	B	703562	703728	YES	NO	Use W/O Obsol.
	15. Column A. - Strg. Std. Tr.	B	703556	703727	YES	NO	Use W/O Obsol.
	16. Pump Asm. - A.I.R.	B	703291	-----	-	YES	Serv. or Scrap Unbal. Stock
	17. Drkt. Asm. - A.I.R. Pump	F	703410	-----	-	YES	Serv. or Scrap Unbal. Stock
	18. Bolt - 3/8-16 x 5"	B	704153	-----	-	YES	Serv. or Scrap Unbal. Stock
	19. Spacer - A.I.R. Pump Adj. Belt	F	704534	-----	-	YES	Serv. or Scrap Unbal. Stock
	20. Bolt - 3/8-16 x 1-1/4	B	180679	-----	-	YES	Use as 180124
	21. Bolt - 3/8-16 x 1	B	180122	-----	-	YES	Reduce Usage
	22. Lockwasher - 3/8 Med. Spr.	B	130382	-----	-	YES	Reduce Usage
	23. Jacket - Air Inj. Div. Vlv.	B	704491	-----	-	YES	Serv. or Scrap Unbal. Stock

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"A"Rev. 5-12-70ENGINEERING MEMO #277 (Cont'd.)

ITEM	NAME	B O R M	OLD PART NUMBER	NEW PART NUMBER	I	A	REMARKS
24.	Elbow-Air Inj.Div.Vlv.	F	704533	-----	-	YES	Serv.or Scrap Unbal.Stock
25.	Washer-9/32 I.D. x 5/8 OD	B	120392	-----	-	YES	Reduce Usage
26.	Lockwasher-1/4 Med.Spr.	B	120380	-----	-	YES	Reduce Usage
27.	Bolt - 1/4-20 x 3/4 Hex.	B	121887	-----	-	YES	Reduce Usage
28.	Valve Asm.-Diverter	B	703294	-----	-	YES	Serv.or Scrap Unbal.Stock
29.	Clamp-Heater Hose	B	92818	-----	-	YES	Serv.or Scrap Unbal.Stock
30.	Hose-Div.Vlv.to Ck.Vlv.LH	B	704435	-----	-	YES	Serv.or Scrap Unbal.Stock
31.	Hose-Div.Vlv.to Ck.Vlv.RH	B	704436	-----	-	YES	Serv.or Scrap Unbal.Stock
32.	Hose-Div.Vlv.to Carb.	B	704440	-----	-	YES	Serv.or Scrap Unbal.Stock
33.	Valve A.-Exh.Gas Check	B	703117	-----	-	YES	Serv.or Scrap Unbal.Stock
34.	Pipe Asm.-Air Inj.LH	F	703414	-----	-	YES	Serv.or Scrap Unbal.Stock
35.	Pipe Asm.-Air Inj.RH	F	703415	-----	-	YES	Serv.or Scrap Unbal.Stock
36.	Pulley-A.I.R. Pump	F	704152	-----	-	YES	Serv.or Scrap Unbal.Stock
37.	Bolt - 1/4-20 x 1/2 Hex.	B	120706	-----	-	YES	Reduce Usage
38.	Exhaust Pipe A.RH Chev. V/8	B	701212	703787	NO	YES	Serv.or Scrap Unbal.Stock
39.	V-Belt-15/32 x 36° x 47.50 Long	B	704770	704859	NO	YES	Serv.or Scrap Unbal.Stock
40.	Hose Asm.-Comp.to Cond. V/8	B	645753	647394	NO	YES	Serv.or Scrap Unbal.Stock

May 12, 1970  
 "A" Rev. 6-9-70  
 "B" Rev. 7-28-70  
 "C" Rev. 9-11-70  
 "D" Rev. 10-15-70

## ENGINEERING MEMO #277 (Cont'd.)

ITEM	NAME	B O R M	OLD PART NUMBER	NEW PART NUMBER	I	A	REMARKS
41.	Hose Asm.-Comp.to Evap.	B	701795	-----	-	-	Reduce Usage
42.	Hose A.-Comp.to Evap.V/8	B	-----	647365	-	-	New Part
43.	Hose A.-Comp.to Evap.V/8	B	645754	-----	-	-	Reduce Usage
44.	Hose A.-Comp.to Evap.V/8	B	-----	647310	-	-	New Part
C 45.	Clip-C/C Vent Hose Spec.	F	704700	-----	-	-	Serv.or Scrap
46.	Vlv.A.-C/C Vent V/8 Eng.	B	703296	703295	-	-	Revise Usage
B 47.	Brkt.-Gen.Inner Half V/8	M	704838	-----	-	-	Serv.or Scrap Unbal.Stock
B 48.	Brkt.-Gen.Outer Half V/8	M	704839	-----	-	-	Serv.or Scrap Unbal.Stock
B 49.	Brkt.Asm.-Gen.V/8	M	703760	704861	NO	YES	Serv.or Scrap Unbal.Stock
B	Brkt.-Gen.Front	F	704526	-----	-	-	Revise Usage
B 51.	Clamp-Hose 5/8 Free ID 6-Cyl.	F	<del>702104</del> 704684	-----	-	-	<del>702104 Reinstated</del> Increase Usage
B 52.	Mounting Asm.-Rear Eng.	B	701369	-----	-	-	Revise Usage
B 53.	Mtg.Asm.-Trans.Supt.	F	-----	703806	-	-	New Part
B 54.	Mtg.Asm.-Eng.Frt.	F	<del>703684</del>	<del>703813</del> <del>703814</del>	NO	YES	<del>CANCELLED</del> <del>Serv.or Scrap</del>
B 55.	Spacer-Eng.Mtg.Adapter Bracket	B	702039	704882	NO	YES	Serv.or Rework to 704882 or Scrap
B 56.	Bracket-V/8 Eng.Mtg.Adptr.	M	704765	704881	NO	YES	Serv.or Scrap Unbal.Stock
B 57.	Spacer-Rear Eng.Mtg.	M	702542	-----	-	-	Revise Usage
B 58.	Support-Eng.Mtg.Rear	M	704791	704890	NO	YES	Serv.or Scrap Unbal.Stock
59.	Bolt - 7/16-20 x 3-1/4 Hex. Hd. GM 280M	B	-----	181679	-	-	New Part
60.	Bolt - 7/16-20 x 3-3/4 Hex. Hd. GM 280M	B	181681	-----	-	-	Revise Usage

ENGINEERING MEMO #277 (Cont'd.)

ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	I	A	REMARKS
61.	C/Member-Asm.-Frt.Susp.Br.	M	701345	Chg."F"	-	-	Serv.or Scrap
62.	Bracket-Fr.Eng.Mtg.Frt.	M	702467 702468	Chg."D", "E","F"	-	-	Serv.or Scrap Unbal.Stock
A 63.	Shim-Frt.Eng.Mtg.	M	704829	-----	-	-	Serv.or Scrap Unbal.Stock
64.	Shield-Eng.Mtg.Heat LH V/8	F	-----	704868	-	-	New Part
65.	Supt.Asm.-Rr.Eng.Mtg. V/8 Auto.	M	703553	704771	NO	YES	Serv.or Scrap Unbal.Stock
66.	Brkt.-Rr.Eng.Supt.Fr.LH	M	704169	-----	-	-	Revise Usage
67.	Lockwasher-7/16 Ext.Tooth	F	138494	136857	YES	YES	Use As 136857
68.	Gusset-Rr.Eng.Mtg.V/8	M	704842	-----	-	-	Serv.or Scrap Unbal.Stock
69.	Supt.-Rr.Eng.Mtg.V/8 Auto.	M	704654	-----	-	-	Serv.or Scrap Unbal.Stock
	Base-Rr.Eng.Mtg.V/8 Auto.	M	704653	-----	-	-	Serv.or Scrap Unbal.Stock
71.	Brkt.-Rr.Eng.Supt.Fr.RH	M	704170	-----	-	-	Revise Usage
72.	Brkt.-Air Cond.Comp.Rr.	F	704803	-----	-	-	Reinstate
73.	Brace Asm.-A/C Comp.Rr.	F	703720	-----	-	-	Reinstate
74.	Grommet-C/C Vent Pipe LH Spec.	F	704753	-----	-	-	Revise Usage
75.	Pulley A.-Water Pump & Fan	F	703393	703392	YES	YES	Serv.or Scrap
76.	Frame A.-Comp.189 WB Std.Tr.	M	-----	703815	-	-	New Part
77.	Frame A.-Comp.189 WB	M	701989	Chg. "F","G"	-	-	Rework As Req'd.
78.	Wheel Asm.-Strg.-Blk.	B	703656	703822	NO	YES	Use W/O Obsoles.
79.	Frame-Sub Asm.-Aerobus	M	701987	Chg. "Z","AA"	-	-	Rework As Req'd.
80.	Spring-Horn Contact	B	704708	-----	-	-	Bal.to 703656; Serv. or Scrap Bal.
81.	Shroud A.-Strg.Wheel	B	703658	703823	NO	YES	Bal.W/703656; Serv. or Scrap Bal.
	Contact Asm.-Horn	B	703657	703824	NO	YES	Bal.to 703656; Serv. or Scrap Bal.

ENGINEERING MEMO #277 (Cont'd.)

ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	I →	A	REMARKS
83.	Button-Horn	B	704709 704710	-----	--	-	Bal. to 703656; Serv. or Scrap Bal.
84.	Mtg. Asm.-Eng. Frt.	F	703813	703805 703807	NO	YES	Serv. or Scrap
85.	Supt.-Eng. Mtg. Rear	M	704164	-----	-	-	Revise Usage
86.	Supt. A.-Eng. Mtg. Rear	M	701842	-----	-	-	Revise Usage
87.	Spacer-Eng. Mtg. Rr. Supt.	B	702061	-----	-	-	Revise Usage
88.	Gasket-Carb. V/8	F	704530	704892	NO	YES	Serv. or Scrap
89.	Mtg. Asm.-Eng. Frt. V/8 Mod.	F	703814	703807	NO	YES	Serv. or Scrap
90.	Valve A.-Exh. Manifold	F	701777	-----	-	-	Serv. or Scrap
91.	Brace-A/C Comp. Rear	F	704522	-----	-	-	Use W/O Obsoles. in Comb.
92.	Spacer-A/C Comp. Rr. Brace	F	704521	-----	-	-	Use W/O Obsoles. in Comb.
93.	Pulley-C/S V/8 Eng.	F	704496	703631	NO	YES	Serv. or Scrap
94.	Brkt.-A/C Comp. Rear	F	704523	-----	-	-	Use W/O Obsoles. in Comb.
95.	Gasket-Exh. Manifold Heat Valve V/8	F	704529	-----	-	-	Serv. or Scrap
96.	Fitting-3/8 Pipe Thd. x 3/8 Tube Spec. Vac.	F	704824	-----	-	-	Use As 704350
A 97.	Label-Exh. Emis. Eng. Tune Up 350 Aero.	B	704760	704894	NO	YES	Serv. or Scrap
A 98.	Conn.-3/8 ID to 1/4 M. Pipe	B	702373	-----	-	-	Reinstated
A 99.	Hose-C/C Vent Vlv. to Manifold	B	Partial 704268	704895	YES	YES	New Part
B 100.	<del>Screw &amp; L/W A. #8-32 x 1 3/32 PHCR Mach.</del>	B	<del>9429575</del>	<del>9414713</del>	NO	YES	<del>Serv. or Scrap</del> CANCELLED
B 101.	Nut - 7/16-14 Spec. Crown Lock	B	-----	626868	-	-	New Part
B 102.	Plate-Eng. Supt. Fr. X-Mbr. Reinf.	M	704670	-----	-	-	Revise Usage

September 11, 1970  
"A"Rev. 10-15-70ENGINEERING MEMO #277 (Cont'd.)

ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	F	A	REMARKS
103.	Plate-Eng.Supt.Bolting	M	704776	-----	-	-	Revise Usage
104.	Brace-A/C Comp.Rr.V/8 Mod	M	704453	-----	-	-	Serv.or Scrap
105.	Rod A.-Cont.Lvr.to B/C Frt.	M	-----	703845	-	-	New Part
A 106.	<del>Bolt-3/8-16 x 2-3/4 Hex. Hd.(GM 280M)</del>	B	180137	-----	-	-	Revise Usage CANCELLED
107.	Bolt-3/8-16 x 1-1/4 Hex. Hd.(GM 280M)	B	180124	-----	-	-	Revise Usage
108.	Strg.Col.& Wheel A.- Auto.Trans.	M	703605	703841	YES	YES	Use W/O Obsoles.
109.	Supt.-Rad.Fan Shroud V/8	M	704807 704808	704915 704916	NO	YES	Serv.or Scrap
110.	Screw-#8 x 5/8 PHCR Type A Tapp.	B	161869	-----	-	-	Increase Usage
	Strg.Col.& Wheel A.- Std.Tr.	M	703606	703852	NO	YES	Use W/O Obsoles.
112.	Bolt - 3/8-24 x 1 Hex.Hd. GM 280M	B	181637	-----	-	-	Revise Usage
113.	Shroud A.-Rad.Fan Upper Lower &	M	701479	703847 703849	NO YES	YES YES	Use As 703849
114.	Channel-Rad.Fan Shroud	M	(Partial) 702632	704850	NO	YES	Revise Usage
115.	Shroud-Radiator Fan	M	(Partial) 702633-34	704907 704908	NO	YES	Revise Usage
116.	Panel-Frt.Fender Inner LH	M	646115	Chg."B" Chg."C"	-	-	Chg."B"-Use Chg."C"-Rework
A 117.	Tab-Carb.Adapter	M	-----	704900	-	-	New Part
118.	Adapter-Carburetor	M	704719	Chg."C"	-	-	Revise Usage
119.	Adapter Asm.-Carb.	M	-----	703832	-	-	New Part
120.	Rod-Cont.Lvr.to B/C Rr.	M	704707	704848	NO	YES	Serv.or Scrap
121.	Shroud A.-Rad.Upr.& Lwr. Comp.	M	703811	703855 703856	NO YES	YES YES	Use As 703856

October 15, 1970

"A"Rev. 12-4-70

"B"Rev. 3-2-71

"C"Rev. 4-5-71

ENGINEERING MEMO #277 (Cont'd.)

ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	→	A	REMARKS
122.	Clip-15/16 Dbl. Closed Type	B	626532	-----	-	-	Increase Usage
123.	Nut - 1/4-20 Hex.	B	120375	-----	-	-	Reduce Usage
124.	Extension-Shroud Rad. Fan	M	-----	704923 704924	-	-	New Part
Ⓐ 125.	Brkt. - Clutch T/O B/C to Eng. V/8	M	702071	704932	NO	YES	Rework 31 Pcs to 704932; Hold Balance for Service
126.	Clamp-11/16 D.Hose Type E	B	(Partial) 272846	702104	-	-	Reduce Usage
127.	Hose-Manif. to Pwr. Brake Cyl. V/8	M	704658	704910	YES	YES	Use and Rework to 704895
128.	Bolt - 3/8-24 x 2 Hex.Hd. GM 280M	B	(Partial) 181648	181651	-	-	Reduce Usage

- Ⓑ #703727 Column Asm.-Strg. replaced 703556 at P.O. 269, Chassis #1002  
 Ⓑ #703822 Wheel Asm.-Strg. replaced 703656 at P.O. 7508, Chassis #12020  
 Ⓑ #703773 Engine Asm. replaced 703574 at P.O. 267, Chassis #1001  
 Ⓒ #703774 Engine Asm. replaced 703575 at P.O. 821, Chassis #12550