



U.S. Department
of Transportation
**Federal Aviation
Administration**

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

McFarlane Aviation, Inc.
696 E 1700 Road
Baldwin City, KS 66006

PMA No: PQ3732CE
Supplement No.115
Date: 5 April 2018

Article Name	Part Number	Approved Replacement For Part Number	Approval Basis and Approved Design Data	MAKE Eligibility:	MODEL Eligibility:
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA702GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 1, Revision 6 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	172K, 172L, 172M, 172N, 172P, 172Q
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA702GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 1, Revision 6 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	172K, 172L, 172M, 172N, 172P, 172Q
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA777GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 2, Revision 02 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, R182, TR182, T182
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA777GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 2, Revision 02 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, R182, TR182, T182

Article Name	Part Number	Approved Replacement For	Approval Basis and Approved Design Data	MAKE Eligibility:	MODEL Eligibility:
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA785GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 3, Revision 04 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	210L, 210M, 210N, T210L, T210M, T210N, 210R, T210R, P210N, P210R
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA785GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 3, Revision 04 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	210L, 210M, 210N, T210L, T210M, T210N, 210R, T210R, P210N, P210R
Vacuum Pump Cooling Kit	KIT NO. 20	Modification Part	STC SA785GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 3, Revision 04 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	210L, 210M, 210N, T210L, T210M, T210N, 210R, T210R, P210N, P210R
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA791GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 4, Revision 02 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	206, P206, P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TP206A, TP206B, TP206C, TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA791GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 4, Revision 02 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	206, P206, P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TP206A, TP206B, TP206C, TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G

Article Name	Part Number	Approved Replacement For	Approval Basis and Approved Design Data	MAKE Eligibility:	MODEL Eligibility:
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA1003GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 5, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	152, A152
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA1003GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 5, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	152, A152
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA1015GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 6, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-34-200T, PA-34-220T
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA1015GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 6, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-34-200T, PA-34-220T
Vacuum Pump Cooling Kit	KIT NO. 20	Modification Part	STC SA1015GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 6, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-34-200T, PA-34-220T

Article Name	Part Number	Approved Replacement For	Approval Basis and Approved Design Data	MAKE Eligibility:	MODEL Eligibility:
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA1034GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 7, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	F33A, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA1034GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 7, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	F33A, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC
Vacuum Pump Cooling Kit	KIT NO. 20	Modification Part	STC SA1034GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 7, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	F33A, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA1072GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 8, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-28-140, PA28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-235, PA-28-236, PA-28-201T, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA1072GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 8, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-28-140, PA28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-235, PA-28-236, PA-28-201T, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T

Article Name	Part Number	Approved Replacement For	Approval Basis and Approved Design Data	MAKE Eligibility:	MODEL Eligibility:
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA1073GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 9, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-32-260, PA-32-300, PA-32-301, PA-32S-300, PA-32R-300, PA-32R-301, PA-32RT-300
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA1073GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 9, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-32-260, PA-32-300, PA-32-301, PA-32S-300, PA-32R-300, PA-32R-301, PA-32RT-300
Vacuum Pump Cooling Kit	KIT NO. 20	Modification Part	STC SA1073GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 9, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Piper Aircraft Inc.	PA-32-260, PA-32-300, PA-32-301, PA-32S-300, PA-32R-300, PA-32R-301, PA-32RT-300
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA1074GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 10, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Mooney Airplane Company, Inc.	M20E, M20F, M20J, M20K
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA1074GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 10, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Mooney Airplane Company, Inc.	M20E, M20F, M20J, M20K

Article Name	Part Number	Approved Replacement For	Approval Basis and Approved Design Data	MAKE Eligibility:	MODEL Eligibility:
Vacuum Pump Cooling Kit	KIT NO. 20	Modification Part	STC SA1074GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 10, Revision 01 dated December 29, 2006 or later FAA-Approved revisions.	Mooney Airplane Company, Inc.	M20E, M20F, M20J, M20K
Vacuum Pump Cooling Kit	KIT NO. 10	Modification Part	STC SA1374GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 11, Revision 02 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	310P, 310Q, 310R, T310P, T310Q, T310R
Vacuum Pump Cooling Kit	KIT NO. 11	Modification Part	STC SA1374GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 11, Revision 02 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	310P, 310Q, 310R, T310P, T310Q, T310R
Vacuum Pump Cooling Kit	KIT NO. 20	Modification Part	STC SA1374GL Installation of a Cooling Shroud on engine driven dry air pumps in accordance with Aero Cables Report No. 11, Revision 02 dated December 29, 2006 or later FAA-Approved revisions.	Textron Aviation Inc.	310P, 310Q, 310R, T310P, T310Q, T310R

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Note: The procedures that have been accepted by the type certificate or TSO authorization holder and its cognizant FAA Aircraft Certification Office, for minor changes to original articles used on type-certificated products, are also acceptable for incorporating the same minor changes on identical PMA replacement articles. The PMA holder must be able to show traceability relating to the TC, STC, or TSO authorization holder on all minor changes incorporated by this procedure. When these procedures are no longer applicable because of completion of the production contract, or termination of the licensing agreement or business relationship, all subsequent minor design changes to the PMA articles must be submitted in a manner as determined by the ACO. Major design changes (reference 14 CFR §§21.319 and 21.619) to drawings and specifications are to be handled in the same manner as that for an original PMA.


 Neal R. Rice
 Manager, Wichita MIDO Section