

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURING APPROVAL**

Hartzell Engine Technologies  
2900 Selma Hwy  
Montgomery, AL 36108

PMA No.: PQ1383CE-D  
Supplement No.: 3  
Date: 2 February 2011

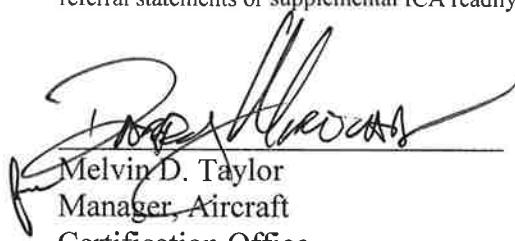
Part Name	Part Number	Approved Replacement For Part Number	Approval Basis & Approved Design Data	Make Eligibility	Model Eligibility
Impulse Coupling Assy (CW 20 Deg)	ES10-400311	TCM/Bendix 10-400311 when used in TCM Bendix Magneto 10-682555 -14, & -141	Test and Computations per 14 CFR § 21.303 <u>DWG NO:</u> ES10-400311 <u>Rev:</u> New <u>Date:</u> 7/16/10 or later FAA-approved revisions	Textron Lycoming	O-320-H1AD, O-320-H2AD, O-320-H3AD, LO-360-A1G6D, O-360-E1A6D, LO-360-A1G6D
Impulse Coupling Assy (CCW 15 Deg)	ES10-400322	TCM/Bendix 10-400322 when used in TCM Bendix Magneto 10-682555-13	Test and Computations per 14 CFR § 21.303 <u>DWG NO:</u> ES10-400322 <u>Rev:</u> New <u>Date:</u> 7/16/10 or later FAA-approved revisions	Textron Lycoming	HIO-360-E1AD, IO-360-A1B6D, IO-360-A1D6D, IO-360-C1E6D, IO-360-J1A6D, LTO-360-E1A6D, TIO-360-C1A6D, TO-360-A1A6D, TO-360-C1A6D, TO-360-F1A6D
Impulse Coupling Assy (CCW 25 Deg)	ES10-400323	TCM/Bendix 10-400323 when used in TCM Bendix Magneto 10-682555-11	Test and Computations per 14 CFR § 21.303 <u>DWG NO:</u> ES10-400323 <u>Rev:</u> New <u>Date:</u> 7/16/10 or later FAA-approved revisions	Textron Lycoming	IO-360-A1B6D, IO-360-A3B6D, IO-360-C1E6D, O-360-A1AD, O-360-A1F6D, O-360-A1LD, O-360-A3AD, O-360-A4AD, O-360-A5AD
Impulse Coupling Assy (CCW 20 Deg)	ES10-400324	TCM/Bendix 10-400324 when used in TCM Bendix Magneto 10-682555-15, & -151	Test and Computations per 14 CFR § 21.303 <u>DWG NO:</u> ES10-400323 <u>Rev:</u> New <u>Date:</u> 7/16/10 or later FAA-approved revisions	Textron Lycoming	LO-360-E1A6D, O-360-A1G6D

Impulse Coupling Assy (CCW 15 Deg)	ES10- 400325	TCM/Bendix 10- 400325 when used in TCM Bendix Magneto 10-682560-11	Test and Computations per 14 CFR § 21.303 <u>DWG NO:</u> ES10-400325 <u>Rev:</u> New <u>Date:</u> 7/16/10 or later FAA-approved revisions	Textron Lycoming	IO-540-T4A5D, IO- 540-T4B5D, IO-540- V4A5D, IO-540- W1A5D, IO-540- W3A5D, O-540- J1A5D, O-540-J1B5D, O-540- J1C5D, O-540-J2A5D, O-540- J2B5D, O-540-J2C5D, O-540- J3A5D, O-540-J3C5D, O-540- L3C5D
.Impulse Coupling Assy (CCW 10 Deg)	ES10- 400326	TCM/Bendix 10- 400326 when used in TCM Bendix Magneto 10-682560-13, & - 131	Test and Computations per 14 CFR § 21.303 <u>DWG NO:</u> ES10-400326 <u>Rev:</u> New <u>Date:</u> 7/16/10 or later FAA-approved revisions	Textron Lycoming	AEIO-540-L1B5D, IO- 540-K1E5D, IO-540- K1G5D, IO-540- L1A5D, IO-540- L1B5D, IO-540- M1B5D, IO-540- U1A5D, TIO-540- S1AD, TIO-540- AB1AD

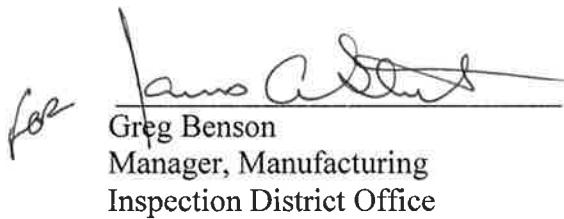
-----End of Listing-----

NOTE:

- 1) Provide minor design changes in a manner as determined by the ACO. Handle major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.
- 2) The FAA approved the ICA for the above parts with their designs. If the TC holder's ICA applies to these replacement parts, provide a statement noting such. If not, provide supplementary ICA per 14 CFR § 21.50. Make referral statements or supplemental ICA readily available per 14 CFR § 21.50.



Melvin D. Taylor  
Manager, Aircraft  
Certification Office



for  
Greg Benson  
Manager, Manufacturing  
Inspection District Office



U.S. Department  
of Transportation

*Federal Aviation  
Administration*

Small Airplane Directorate  
Atlanta Manufacturing Inspection  
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1701 Columbia Avenue  
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February 10, 2011

PMA NO. PQ1383CE

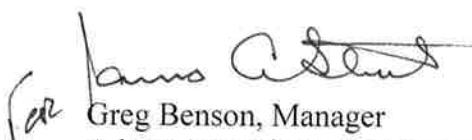
Hartzell Engine Technologies, LLC  
a division of Tailwind Technologies Inc.  
2900 Selma Highway  
Montgomery, AL 36108

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER  
APPROVAL**

In accordance with the provisions of Title 14, Code of Federal Regulations (14 CFR), Part 21, Certification Procedures for Products and Parts, subpart K, the FAA has found that the design data, based on tests and computation submitted by Hartzell Engine Technologies, LLC., with your letter dated January 14, 2011, meets the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, the FAA has determined that Hartzell Engine Technologies, LLC has established the fabrication inspection system required by § 21.303(h) at 2900 Selma Highway Montgomery, AL 36108. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 3.

You are reminded that the provisions of 14 CFR, Parts 21 and 45, noted in our PMA letter of approval dated October 22, 2010, also apply to the enclosed PMA Listing-Supplement No. 3. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,

  
for *James A. St. L.*  
Greg Benson, Manager  
Atlanta Manufacturing Inspection District  
Office

Enclosure:  
PMA Listing – Supplement No. 3.