

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

PMA Products, Inc. (Formerly Causey Aviation)  
6120 Smithwood Road  
Liberty, NC 27298

PMA NO. PQ1146CE  
SUPPLEMENT NO. 31R1  
DATE: December 1, 1994 revised February 2, 2009

| <u>Part Name</u> | <u>Part Number</u> | <u>Approved Replacement For</u>                                                                                                  | <u>FAA Approval Basis and Approved Design Data</u>                                                                                              | <u>Installation Eligibility: MAKE</u> | <u>Installation Eligibility: MODEL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Block Assembly   | CA3044             | A3044<br>(Beechcraft)                                                                                                            | Test and Computation per 14 CFR Part 21.303(c)(4), Dwg. CA3044, Initial Release, dated 10/26/94, or later FAA Approved Revision.                | Beechcraft                            | A90 S/N LJ-114 thru -317; B90 S/N LJ-318 thru -501; C90 & C90A S/N LJ-502 and after; E90 S/N LW-1 thru -347; F90 S/N LA-2 and after; 100 S/N B2 thru B-89 and B-93; A100 S/N B-1, B-90 and after except B-93; 200; 200T; 200C; 200CT; B200 S/N BB-734, BB-793, BB-829, BB-854 thru -870, BB-874 thru -891, BB-894 thru -911, BB-913 thru -1430, BB-1440 thru-1443; B200T S/N BT-23 thru -27, BT-29 thru -34; B200C S/N BL-37 thru -138, B200CT S/N BN-2 thru BN-4; 99; 99A; A99A; B99; and C99 PT6A-60A, -65B, -65R, -65AR, and -65AG (Post S/B 13116). |
| Shim             | CA3110998-01       | 3110998-01<br>(Pratt & Whitney)                                                                                                  | Test and Computation per 14 CFR Part 21.303(c)(4), Dwg. CA3110998-01, Initial Release, dated 09/26/94, or later FAA Approved Revision.          | Pratt & Whitney                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gasket           | CA16-A48           | 16-A48<br>(Precision Airmotive, installed on Precision Airmotive carburetor models MA-4-5, MA-4-5AA, MA-5, MA-5AA, MA-6, MA-6AA) | Test and Computation per 14 CFR Part 21.303(c)(4), per Engineering Report No. CA16-A48, Rev. 1, dated 07/26/94, or later FAA Approved Revision. | Precision Airmotive                   | Where used on Continental E165-2, E185-2, GO-300-A, -B, -C, -D, -E and -F; O-470-A, -J, -K, -L, -R, -S, -T and -U; Franklin 6AS-335-A and -B; 6A-350-C1, -C1A, -C2, -C2A, -D, -D1, -D1A and -D1B; 6A4-165-B3, -B4 and -B6; 6A4-200-C6; 6A8-215-B7F, -B8F and -B9F; 6VS-335-A, -B, -A1 and -B1; 6V-335-A1A, -A1B; 6V-350-A and -B; and Lycoming O-340-A1A, -A2A and -B1A; O-360-A1A, -A1AD, -A1D, -A1F, -A1F6, -A1F6D, -A1LD, -A2A, -A2D, -A2E, -A2F, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4M,                                                        |

| <u>Part Name</u>         | <u>Part Number</u> | <u>Approved Replacement For</u> | <u>FAA Approval Basis and Approved Design Data</u> | <u>Eligibility: MAKE</u> | <u>Installation Eligibility: MODEL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|--------------------|---------------------------------|----------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                    |                                 |                                                    |                          | -A4N, -A5AD, -B1A, -B1B,<br>-B2A, -B2B, -C1A, -C1C,<br>-C1E, -C1G, -C2A, -C2C,<br>-C2E, -D1A, -D2A and -D2B;<br>HO-360-A1A; VO-360-A1A,<br>-A1B and -B1A; O-435-A, -A2,<br>-B, -C1, -K, -K1 and -25;<br>GO-435-C2, -C2A, -C2A2,<br>-C2B, -C2B1, -C2B2, -C2C,<br>-C2D, -C2E, and -D1;<br>VO-435-A1A, -A1B, -A1C,<br>-A1D, -A1E, -A1F and -B1A;<br>TVO-435-A1A, -B1A, -B1B,<br>-C1A, -D1A, -D1B, -E1A,<br>-F1A, -G1A and -G1B;<br>O-540-A1A, -A1A5, -A1B5,<br>-A1C5, -A1D, -A1D5, -A2B,<br>-A3D5, -A4A5, -A4B5, -A4C5,<br>-A4D5, -B1A5, -B1B5, -B1D5<br>-B2A5, -B2B5, -B2C5, -B4A5,<br>-B4B5, -D1A5, -E4A5, -E4B5,<br>-E4C5, -F1A5, -F1B5, -G1A5,<br>-G2A5, -H1A5, -H1A5D,<br>-H1B5D, -H2A5, -H2A5D and<br>-H2B5D; VO-540-B1A, -B1B,<br>-B1B3, -B1C, -B1D, -B1E,<br>-B1F, -B1H3, -B2A, -B2C,<br>-B2D, -B2E, B2G, -C1A, -C1B,<br>-C1C3, -C2A -C2B and -C2C;<br>and TVO-540-A1A model<br>engines |
| -----End of Listing----- |                    |                                 |                                                    |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

NOTES:

- 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.

Revision R1: Corrected typo in Approved Replacement For column.  
 Was: A3110998-01  
 Is: 3110998-01

*James Reeves*  
 FOR James Reeves, Manager, Atlanta  
 Manufacturing Inspection District Office