U. S Department
of Transportation

**Federal Aviation
Administration**

Small Airplane Directorate
Chicago Aircraft Certification Office
2300 E. Devon Avenue
Des Plaines, IL 60018

Mr. Jon Margrave
Ontic Engineering and Manufacturing Inc.
20360 Plummer Street
Chatsworth, CA 91311

Dear Mr. Margrave:

This is in connection with your purchase of Supplemental Type Certificates (STCs) from Woodward Governor in October 2004. The attached is SA250CE with Approved Model List (AML) that has been updated and re-issued to your company name.

The original STC files will also be transferred to Los Angels Aircraft Certification Office in Lakewood, CA within a few days.

Please be aware of your responsibilities under the requirements of 14 CFR 21.3, regarding the reporting of any failure, malfunction or defect in any article manufactured under this approval. If you have any questions, please call Mr. Chung-Der Young at (847) 294-7309.

Sincerely,

Thaddeus D. Krolicki, Jr.
Manager, Propulsion Branch
Chicago Aircraft Certification Office

1 Enclosure

United States of America
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA250CE

*This certificate issued to* Ontic Engineering and Manufacturing Inc.
20360 Plummer Street
Chatsworth, California 91311

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part * of the * Regulations **

*Original Product - Type Certificate Number* * See attached FAA Approved Model List (AML)
*Make* SA250CE for list of Approved airplane models
*Model* and applicable airworthiness regulations.

*Description of Type Design Change*
Install: Woodward Electronic Propeller Synchronizer or Synchrophaser System on light twin-engine airplanes.

Data Required: Data shown on Approved Model List

*Limitations and Conditions*

1 Compatibility of this design change with previously approved modifications must be determined by the installer.

2 A copy of this Certificate and the FAA Approved Model List (AML) No. SA0250CE or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.

3 If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application* June 2, 1964

*Date of issuance* June 19, 1964

*Date reissued* October 21, 2004;
June 24, 2005

*Date amended* Aug. 12, 1965; Jul. 25, 1966; Jul. 19, 1967; Oct. 21, 1968; Aug. 25, 1971; Aug. 27, 1971; May 12, 1972; Jul. 26, 1974; Nov. 12, 1974; Dec 12, 1986; Oct. 8, 1987; Dec. 4, 1987

*By direction of the Administrator*

(*Signature*)
Thaddeus D. Krolicki, Jr
Manager, Propulsion Branch
Chicago Aircraft Certification Branch
(*Title*)

*Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.*


*This certificate may be transferred in accordance with FAR 21.47.*

FAA Approved Model List (AML) NO. SA250CE
Ontic Engineering and Manufacturing Inc.
for
Installation of Woodward Type II Electronic Engine Synchronizer or Synchrophaser System

Date of Issuance: June 19, 1964

| LINE | AIRCRAFT MAKE | AIRCRAFT MODEL | ORIGINAL TYPE CERTIFICATE NUMBER | CERTIFICATION BASIS FOR ALTERATION | INSTALLATION INSTRUCTIONS | | AFM | AML |
|---|---|---|---|---|---|---|---|---|
| | | | | | NUMBER | * REVISION NO. / DATE | SUPPLEMENT NO. / DATE | AMENDMENT DATE |
| 1 | Cessna | 310D | 3A10 | CAR 3 | 33031 | 615/1964 | 6/17/1964 | 5/24/2005 |
| 2 | Raytheon (Beech) | 65-90 | 3A20 | CAR 3 | 33033 | 8/10/1964 | 8/13/1964 | 5/24/2005 |
| 3 | Raytheon (Beech) | 65-90 | 3A20 | CAR 3 | 33039 | 9/15/1964 | 8/13/1964 | 5/24/2005 |
| 4 | Raytheon (Beech) | 95, B95, B95A, D95A | 3A16 | CAR 3 | 33029 | 9/21/1964 | 9/21/1964 | 5/24/2005 |
| 5 | Raytheon (Beech) | 95-55, 95-A55, 95-B55 | 3A16 | CAR 3 | 33030 | 11/16/1964 | 11/20/1964 | 5/24/2005 |
| 6 | Raytheon (Beech) | 95, B95, B95A, D95A | 3A16 | CAR 3 | 33037 | 12/15/1964 | 9/21/1964 | 5/24/2005 |
| 7 | Raytheon (Beech) | C45G, D18S, E18S-9700, G18S, H18 | A-765 | CAR 3 | 33043 | 2/2/1965 | 2/2/1965 | 5/24/2005 |
| 8 | Raytheon (Beech) | G50, H50, J50 | 5A4 | CAR 3 | 33027 | 2/2/1965 | 3/15/1965 | 5/24/2005 |
| 9 | Raytheon (Beech) | 95-55, 95-A55, 95-B55 | 3A16 | CAR 3 | 33042 | 12/30/1964 | 11/20/1964 | 5/24/2005 |
| 10 | Cessna | 336 | A2CE | CAR 3 | 33036 | 8/17/1964 | 8/19/1964 | 5/24/2005 |
| 11 | Cessna | 310D | 3A10 | CAR 3 | 33041 | 12/15/1964 | 6/17/1964 | 5/24/2005 |
| 12 | Cessna | 310I | 3A10 | CAR 3 | 33041 | 12/15/1964 | 6/17/1964 | 5/24/2005 |
| 13 | Cessna | 310D, 310J, E310H | 3A10 | CAR 3 | 33031 | 6/15/1964 | 6/17/1964 | 5/24/2005 |
| 14 | Cessna | 310E, 310H, 310J, E310H | 3A10 | CAR 3 | 33041 | 12/15/1964 | 6/17/1964 | 5/24/2005 |
| 15 | Cessna | 336 | A2CE | CAR 3 | 33047 | 7/8/1965 | 8/19/1964 | 5/24/2005 |
| 16 | Cessna | 310K, 310L, 310N, 310P | 3A10 | CAR 3 | 33041 | 12/15/1964 | 6/17/1964 | 5/24/2005 |

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| 17 | Cessna | 310Q | 3A10 | CAR 3 | 33041 | 12/15/1964 | 6/17/1964 | 5/24/2005 |
| 18 | Twin Commander (Rockwell) | 680, 680E | 2A4 | CAR 3 | 33034 | 8/20/1964 | 8/25/1964 or 9/241964 | 5/24/2005 |
| 19 | Twin Commander (Rockwell) | 560-E | 6A1 | CAR 3 | 33034 | 8/20/1964 | 8/25/1964 or 9/24/1964 | 5/24/2005 |
| 20 | Twin Commander (Rockwell) | 680, 680FL, 560-F | 2A4 | CAR 3 | 33035 | 10/22/1964 | 10/23/1964 | 5/24/2005 |
| 21 | Twin Commander (Rockwell) | 500-B | 6A1 | CAR 3 | 33040 | 11/24/1964 | 11/25/1964 | 5/24/2005 |
| 22 | Twin Commander (Rockwell) | 680FL(P) | 2A4 | CAR 3 | 33035 | 12/22/1964 | 10/23/1964 | 5/24/2005 |
| 23 | Twin Commander (Rockwell) | 560-F, 680F, 680FL, 680FLP | 2A4 | CAR 3 | 33024 | 4/30/1965 | 5/10/1965 | 5/24/2005 |
| 24 | Twin Commander (Rockwell) | 560-A | 6A1 | CAR 3 | 33034 | 5/19/1965 | 8/25/1964 | 5/24/2005 |
| 25 | Twin Commander (Rockwell) | 720 | 2A4 | CAR 3 | 33034 | 5/19/1965 | 8/25/1964 | 5/24/2005 |
| 26 | Twin Commander (Rockwell) | 560-A, 560-E | 6A1 | CAR 3 | 33044 | 7/20/1965 | 8/25/1964 | 5/24/2005 |
| 27 | Twin Commander (Rockwell) | 680, 680E, 720 | 2A4 | CAR 3 | 33044 | 7/20/1965 | 8/25/1964 | 5/24/2005 |
| 28 | Twin Commander (Rockwell) | 500-B, 500-U | 6A1 | CAR 3 | 33055 | 6/30/1966 | 8/25/1964 | 5/24/2005 |
| 29 | Raytheon (Beech) | 65-80, 65A-A80, 65-88 | 3A20 | CAR 3 | 33045 | 10/20/1965 | 10/25/1965 | 5/24/2005 |
| 30 | Raytheon (Beech) | 65-80, 65A-A80, 65-88 | 3A20 | CAR 3 | 33028 | 11/1/1965 | 11/5/1965 | 5/24/2005 |
| 31 | Raytheon (Beech) | 95-C55 | 3A16 | CAR 3 | 33030 | 12/16/1965 | 11/20/1964 | 5/24/2005 |
| 32 | Raytheon (Beech) | 65-A90 | 3A20 | CAR 3 | 33039 | 1/21/1966 | 8/13/1964 | 5/24/2005 |

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| 33 | Raytheon (Beech) | 65-B80 | 3A20 | CAR 3 | 33045 | 10/20/1965 | 10/25/1965 | 5/24/2005 |
| 34 | Raytheon (Beech) | 65-A88 | 3A20 | CAR 3 | 33046 | 6/20/1966 | 6/23/1966 | 5/24/2005 |
| 35 | Raytheon (Beech) | 95, B95, B95A, D95A | 3A16 | CAR 3 | 33056 | 8/15/1966 | 8/16/1966 | 5/24/2005 |
| 36 | Raytheon (Beech) | 65 | 3A20 | CAR 3 | 33057 | 8/15/1966 | 8/16/1966 | 5/24/2005 |
| 37 | Raytheon (Beech) | G50, H50, J50 | 5A4 | CAR 3 | 33057 | 8/15/1966 | 8/16/1966 | 5/24/2005 |
| 38 | Raytheon (Beech) | C50, D50, D50B, D50E | 5A4 | CAR 3 | 33053 | 12/1/1965 | 12/2/1965 | 5/24/2005 |
| 39 | Raytheon (Beech) | 95-55, 95-A55, 95-B55, 95-C55 | 3A16 | CAR 3 | 33042 | 8/10/1966 | 11/20/1964 | 5/24/2005 |
| 40 | Raytheon (Beech) | 65-A90 | 3A20 | CAR 3 | 33038 | 3/1/1967 | 3/15/1967 | 5/24/2005 |
| 41 | Raytheon (Beech) | C50, D50, D50B, D50E | 5A4 | CAR 3 | 33025 | 3/10/1965 | 10/3/1963 | 5/24/2005 |
| 42 | Raytheon (Beech) | B90 | 3A20 | CAR 3 | 33038 | 11/6/1967 | 3/15/1967 | 5/24/2005 |
| 43 | Raytheon (Beech) | B90 | 3A20 | CAR 3 | 33066 | 11/8/1967 | 11/10/1967 | 5/24/2005 |
| 44 | Raytheon (Beech) | 56TC | 3A16 | CAR 3 | B33059 | 12/15/1967 | 1/2/1968 | 5/24/2005 |
| 45 | Raytheon (Beech) | 60 | A12CE | FAR 23 | 33032 | 12/15/1967 | 2/2/1968 | 5/24/2005 |
| 46 | Raytheon (Beech) | D55 | 3A16 | CAR 3 | 33042 | 8/10/1968 | 11/20/1964 | 5/24/2005 |
| 47 | Bombardier (Denavilland) | DHC-6-1, DHC-6-100, DHC-6-200 | A9EA | CAR 3 | 33064 | 3/15/1967 | 3/15/1967 | 5/24/2005 |
| 48 | Mitsubishi (Mooney) | MU-2B | A2PC | CAR 10 | 33060 | 9/20/1967 | 9/22/1967 | 5/24/2005 |
| 49 | Mitsubishi (Mooney) | MU-2B | A2PC | CAR 10 | 33061 | 1/20/1968 | 9/22/1967 | 5/24/2005 |

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| 50 | Mitsubishi (Mooney) | MU-2B-15, MU-2B-20 | A2PC | CAR 10 | 33060 | 3/1/1969 | 9/22/1967 | 5/24/2005 |
| 51 | Bombardier (Denavilland) | DHC-6-300 | A9EA | CAR 3 | 33076 | 3/15/1969 | 3/15/1969 | 5/24/2005 |
| 52 | Mitsubishi (Mooney) | MU-2B-30 | A2PC | CAR 10 | 33060 | 11/12/1969 | 9/22/1967 | 5/24/2005 |
| 53 | Bombardier (Denavilland) | DHC-6-300 | A9EA | CAR 3 | 33175 | New | 12/12/1986 | 5/24/2005 |
| 54 | Cessna | 310J, 310K | 3A10 | CAR 3 | 33067 | 12/15/1967 | 12/15/1967 | 5/24/2005 |
| 55 | Cessna | 320D | 3A25 | CAR 3 | 33068 | 12/20/1967 | 12/20/1967 | 5/24/2005 |
| 56 | Cessna | 401, 402 | A7CE | CAR 3 | 33068 | 12/20/1967 | 12/20/1967 | 5/24/2005 |
| 57 | Cessna | 337 | A6CE | CAR 3 | 33065 | 12/1/1967 | 12/5/1967 | 5/24/2005 |
| 58 | Cessna | 411 | A7CE | CAR 3 | 33069 | 12/30/1967 | 12/30/1967 | 5/24/2005 |
| 59 | Cessna | 421 | A7CE | CAR 3 | 33070 | 1/5/1968 | 1/5/1968 | 5/24/2005 |
| 60 | Cessna | 414 | A7CE | CAR 3 | 33068 | 7/10/1970 | 12/20/1967 | 5/24/2005 |
| 61 | Cessna | 340 | 3A25 | CAR 3 | 33068 | 12/1/1986 | 12/20/1967 | 5/24/2005 |
| 62 | Twin Commander (Rockwell) | 500-S | 6A1 | CAR 3 | B33055 | 6/30/1966 | 11/25/1964 | 5/24/2005 |
| 63 | Twin Commander (Rockwell) | 690 | 2A4 | CAR 3 | B33103 | 1/15/1973 | 1/15/1973 | 5/24/2005 |
| 64 | Twin Commander (Rockwell) | 685 | 2A4 | CAR 3 | B33108 | 4/3/1974 | 4/4/1974 | 5/24/2005 |
| 65 | Raytheon (Beech) | 99 | A14CE | FAR 23 | 33066 | 5/2/1968 | 11/10/1967 | 5/24/2005 |
| 66 | Raytheon (Beech) | 99A | A14CE | FAR 23 | 33066 | 2/3/1969 | 11/10/1967 | 5/24/2005 |

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| 67 | Raytheon (Beech) | 100 | A14CE | FAR 23 | 33066 | 7/15/1969 | 11/10/1967 | 5/24/2005 |
| 68 | Raytheon (Beech) | A99, A99A | A14CE | FAR 23 | 33066 | 3/1/1971 | 11/10/1967 | 5/24/2005 |
| 69 | Raytheon (Beech) | B99 | A14CE | FAR 23 | 33066 | 3/15/1972 | 11/10/1967 | 5/24/2005 |
| 70 | Raytheon (Beech) | 65-80, 65-A80, 65-B80, 65-88 | 3A20 | CAR 3 | 33073 | 4/1/1969 | 4/1/1969 | 5/24/2005 |
| 71 | Raytheon (Beech) | B90 | 3A20 | CAR 3 | 33074 | 6/10/1969 | 6/10/1969 | 5/24/2005 |
| 72 | Raytheon (Beech) | 99, 99A, 100 | A14CE | FAR 23 | 33074 | 6/10/1969 | 6/10/1969 | 5/24/2005 |
| 73 | Raytheon (Beech) | 65, A65, 70 | 3A20 | CAR 3 | 33078 | 10/20/1969 | 10/20/1969 | 5/24/2005 |
| 74 | Mitsubishi (Mooney) | MU-2B-20 | A2PC | CAR 10 | 33085 | 6/1/1970 | 6/1/1970 | 5/24/2005 |
| 75 | Raytheon (Beech) | C90 | 3A20 | CAR 3 | 33074 | 10/26/1970 | 6/10/1969 | 5/24/2005 |
| 76 | Mitsubishi (Mooney) | MU-2B-30 | A2PC | FAR 23 | 33085 | 11/2/1970 | 6/1/1970 | 5/24/2005 |
| 77 | Raytheon (Beech) | A100 | A14CE | CAR 3 | 33074 | 5/18/1971 | 6/10/1969 | 5/24/2005 |
| 78 | Mitsubishi (Mooney) | MU-2B-35 | A2PC | CAR 10 | B33099 | 6/1/1971 | 6/1/1971 | 5/24/2005 |
| 79 | Raytheon (Beech) | A60 | A12CE | FAR 23 | 33032 | 2/1/1970 | 2/2/1968 | 5/24/2005 |
| 80 | Raytheon (Beech) | 58, 58A | 3A16 | CAR 3 | 33042 | 7/8/1971 | 11/20/1964 | 5/24/2005 |
| 81 | Piper | PA-31P | A8EA | CAR 3 | B33094 | 20-Jul-1970 | 7/25/1970 | 5/24/2005 |
| 82 | Piper | PA-31T | A8EA | CAR 3 | B33127 | New | 6/20/1974 | 5/24/2005 |
| 83 | Raytheon (Beech) | E90 | 3A20 | CAR 3 | B33074 | 4/7/1972 | 6/10/1969 | 5/24/2005 |

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| 84 | Mitsubishi | MU-2B-25 | A2PC | CAR 10 | B33099 | 6/1/1971 | 6/1/1971 | 5/24/2005 |
| 85 | Mitsubishi | MU-2B-10, MU-2B-15 | A2PC | CAR 10 | B33112 | 2/6/1973 | 2/6/1973 | 5/24/2005 |
| 86 | Mitsubishi | MU-2B-26, MU-2B-36 | A2PC | CAR 10 | B33099 | 8/26/1974 | 6/1/1971 | 5/24/2005 |
| 87 | Raytheon (Beech) | B100 | A14CE | FAR 23 | B33135 | New | 2/25/1976 | 5/24/2005 |
| 88 | Twin Commander (Rockwell) | 690, 690A | 2A4 | CAR 3 | B33143 | New | 2/25/1976 | 5/24/2005 |
| 89 | Raytheon (Beech) | F90 | A31CE | FAR 23 | B33074 | 12/10/1980 | 6/10/1969 | 5/24/2005 |
| 90 | Piper | PA-31T | A8EA | CAR 3 | B33186 | New | 2/25/1976 | 5/24/2005 |
| 91 | Piper | PA-31T | A8EA | CAR 3 | B33174 | New | 2/25/1976 | 5/24/2005 |

* Or later FAA approved revision

FAA Approved:

Thaddeus D. Krolicki, Jr.
Manager, Propulsion Branch
Chicago Aircraft Certification Office

Date Amended: August 12, 1965, July 25, 1966, July 19, 1967, October 21, 1968, August 25, 1971, August 27, 1971, May 12, 1972, July 26, 1974, November 12, 1974, December 12, 1986, October 8, 1987, December 4, 1987

Date reissued: October 21, 2004
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