

COASTAL PLANES, INC.

MANUAL

**INSTALLATION, MT-PROPELLER COMPANY
MODEL MTV-12 PROPELLERS
ON CESSNA 336 or 337 SERIES AIRCRAFT,
CONTINENTAL IO-360-() POWERED**

STC NUMBER # SA02460AT

**DOCUMENT C336/337P-99-01
REV. B DATED 08-07-13**

COASTAL PLANES, Inc.
227 MOUNT OLIVE AIRPORT ROAD
MOUNT OLIVE, NC 28365

Manual – Propeller Installation in Cessna 336 or 337 series aircraft
Continental IO-360-() powered

STC # SA02460AT
Document C336/337P-99-01, Rev. B, Dated 08-07-13

Index / Data / Revision Control List

| <u>Number</u> | <u>Date</u> | <u>Revision</u> | <u>Description</u> |
|---------------|-------------|-----------------|---|
| - | 08/07/13 | B | Cover |
| 99-01-01 | 08/07/13 | B | Index; Applicable models and Serial numbers (Rev. B adds T337G and T337H models) |
| 99-01-02 | 08/07/13 | B | Introduction / Precautions and Removal / Installation / Set-Up (Rev. A adds rear prop spacer) (Rev. B deletes limitations) |
| 99-01-03 | 06/26/13 | A | Removal / Installation / Set-Up Continued and Instructions for Continued Airworthiness (Rev. A adds rear prop spacer) |

**** Drawings:**

| | | | |
|---------|----------|--------|--|
| P-672 | 12/10/99 | (None) | Installation, Front Propeller, with Spinner |
| P-671 | 12/10/99 | (None) | Installation, Rear Propeller, with Spinner |
| P-670-1 | 06/26/00 | (None) | Installation drawing of Spacer Flange A-847-A-63 |

** Not supplied to customer:

APPLICABLE CESSNA MODELS

| Model Number | Serial Number |
|---------------------|---|
| 336 | 633, 636, 336-0001 through 336-0195 |
| 337 | 337-0002 through 337-0239 |
| 337A and USAF O2B | 337-0240 through 337-0525 (except 337-0306 & 337-0470) ** |
| 337B | 337-0001, 337-0470, 337-0526 through 337-0755 (except 337-0569) |
| 337C | 337-0756 through 337-0978 |
| 337D | 337-0979 through 337-1193 |
| M337B | 337-M0001 through 337-M0476** |
| 337E | 33701194 through 33701316 |
| 337F | 33701317 through 33701462 and 33700306 (except 33701449) |
| 337G | 33701463 through 33701815 and 33701449 |
| T337G | 677, P3370001 through P3370292 (except P3370196) |
| 337H | 33701816 through 33701950 (except 33701920 and 33701923 through 33701927) |
| T337H | 33701816 through 33701950 (except 33701920 and 33701923 through 33701927) |

** See TCDS A6CE for Conversion requirements for O2B & M337B aircraft

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Index / Data / Revision Control List

INTRODUCTION / PRECAUTIONS

TO THE AIRCRAFT OWNER: This modification should be performed by a qualified A&P Mechanic and inspected by a second set of eyes. Both the Mechanic and the Inspector should have experience on this aircraft type.

TO THE OWNER, MECHANIC AND INSPECTOR: These instructions are generic to the aircraft as originally manufactured by Cessna, or if EX-Government as modified by appropriate Cessna conversion drawing. The aircraft covered by this STC, at the time of their conversion, will have been in service for many years and exhibit varying degrees of modification, repair and wear.

It is the mechanic's and inspector's responsibility to exercise the utmost care and judgment in making this modification in accordance with the STC and in the exercise of good judgment in determining the compatibility of this STC, in all regards, with all other modifications on the particular aircraft.

REMOVAL / INSTALLATION /SET-UP INSTRUCTIONS

1. Referring to Section 12 of the appropriate Cessna Service Manual, remove the existing front and rear propellers and spinners from the aircraft.
2. Referring to MT-Propeller company Manual E-124 Section 5, at the front engine, install new Propeller MTV-12-D-C-F/CF192-119a and Spinner Assembly P-615 with attaching hardware supplied with the propeller. Torque nuts to 63 to 66 ftlb.
3. Referring to MT-Propeller Company Manual E-124 Section 5, at the rear engine, install new Spacer A-847-1-A-63, Propeller MTV-12-D-C-F/CFLD192-119a and Spinner Assembly P-614 with attaching hardware supplied with the propeller. Torque nuts to 63 to 66 ftlb.
4. Check for clearance between cowl and prop or spinner. There must be .5 clearance between the prop blades or cuffs and any stationary parts of the aircraft. There must be positive clearance between the spinners and any stationary parts of the aircraft, .5 recommended.
5. Check propeller control rigging referring to Section 12 of the appropriate Cessna Service Manual and Section 5 of MT-Propeller Company Manual E-124.

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Index / Data / Revision Control List

REMOVAL/INSTALLATION/SET-UP INSTRUCTIONS (continued)

6. Referring to MT-Propeller Company Manual E-124 Section 5, ground run each engine, functionally check propeller operation, check maximum static rpm, it should be 50 to 100 rpm below the maximum 2800 rpm. Adjust propeller governor high-rpm if necessary.
7. Revise aircraft weight and balance, remove original props and spinners from the equipment list and add MT-Propeller Company items to the equipment list.

| Item Desc. / Part No. | Weight (lb.) | CG Location (in.) |
|---|---------------------|--------------------------|
| Fwd. Prop. MTV-12-D-C-F/CF192-119a With Spinner P-615 | 56.9 ** | 20.15 ARM |
| Aft Prop. MTV-12-D-C-F/CFLD192-119a With Spacer A-847-1-A-63 and Spinner P-614 | 64.7 | 231.46 ARM |

**** Add 2.2 lb. if de-ice kit is installed!**

8. Install FAA approved flight Manual Supplement, appropriate to aircraft serial number being modified.
9. Make log entries and complete FAA form 337 for aircraft and prop. Return aircraft to service.
10. Fly aircraft and check maximum **2800 rpm** setting for each engine, readjust if necessary.

Notes: (1) Instrument markings do not change.
(2) This modification has been determined to have no affect on
Take-Off Noise Levels.

Instructions for Continued Airworthiness

Refer to MT-Propeller Company Manual E-124, Operation- and Installation Manual, for on-the-aircraft-maintenance.

Refer to MT-Propeller Company Manual E-220, Overhaul Manual, for repair and overhaul requirements.