

Cape Cod Community College AMTS

Practical Project Guide for AMT 221 Airframe Curriculum, Subject Item 37

Part 147, Appendix C, Part 2, Subject D – Aircraft Instrument Systems

Item 37. Install instruments and perform a static pressure system leak test

## **Project 1A, 1B, & 1C**

Purpose: To acquaint the student with the proper procedures for installing instrumentation that will require performing a static pressure system leak test.

References:

- 1) 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe Volume 2 (FAA-H-8083-30) Chapter 10
- 2) Cessna 402C Maintenance Manual, Chapters 5 and 34
- 3) Laversab 6200 Manual

Equipment and Tools Needed:

- (1) Cessna 402C
- (2) Laversab 6200 Pitot Static Test Set
- (3) Snap-On Roll-around Toolbox
- (4) Personal Protection Equipment (PPE)

Supplies and Materials Needed:

- (1) Teflon tape
- (2) Masking tape

Procedure:

**Complete following procedure on assigned project 1A, 1B, or 1C**

**Project 1A** Item 37. Install instruments and perform a static pressure system leak test

- (1) Remove barometric pressure altimeter
  - a. Inspect for abnormal condition of unit, replace if necessary
- (2) Install barometric pressure altimeter
  - a. Perform static system test:
    - i. Refer to Flight Environmental Data System - Maintenance Practices, Chapter 34-10-00, page 201 of the Cessna 402C Maintenance Manual

**Project 1B**      Item 37. Install instruments and perform a static pressure system leak test

- (1) Remove vertical speed indicator
  - a. Inspect for abnormal condition of unit, replace if necessary
- (2) Install vertical speed indicator
  - a. Perform static system test
    - i. Refer to Flight Environmental Data Maintenance Practice

**Project 1C**      Item 37. Install instruments and perform a static pressure system leak test

- (1) Remove airspeed indicator
  - a. Inspect for abnormal condition of unit, replace if necessary
- (2) Install airspeed indicator
  - a. Perform static system test
    - i. Refer to Flight Environmental Data Maintenance Practice

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Part 147, Appendix C, Part 2, Subject D – Aircraft Instrument Systems

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## **Project 2A, 2B, & 2C**

Purpose: To acquaint the student with the proper procedures for installing instrumentation that will require performing a static pressure system leak test.

References:

- (1) 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe Volume 2 (FAA-H-8083-30) Chapter 10
- (2) Piper Comanche PA 24-250 Service Manual, Section XI
- (3) Laversab 6200 Manual

Equipment and Tools Needed:

- (1) Piper Comanche PA 24-250
- (2) Laversab 6200 Pitot Static Test Set
- (3) Snap-On Roll-around Toolbox
- (4) Personal Protection Equipment (PPE)

Supplies and Materials Needed:

- (1) Teflon tape
- (2) Masking tape

Procedure:

**Complete following procedure on assigned project 2A, 2B, or 2C**

**Project 2A** Item 37. Install instruments and perform a static pressure system leak test

- (1) Remove rate of climb indicator
  - a. Inspect for abnormal condition of unit, replace if necessary
- (2) Install rate of climb indicator
  - a. Perform static system test

**Project 2B** Item 37. Install instruments and perform a static pressure system leak test

- (1) Remove altimeter indicator
  - a. Inspect for abnormal condition of unit, replace if necessary
- (2) Install altimeter indicator
  - a. Perform static system test

**Project 2C** Item 37. Install instruments and perform a static pressure system leak test

- (1) Remove airspeed indicator
  - a. Inspect for abnormal condition of unit, replace if necessary
- (2) Install airspeed indicator
  - a. Perform static system test

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