

Cape Cod Community College AMTS

Practical Project Guide for AMT 213 Curriculum, Subject Item 28

Part 147, Appendix C, Part 1, Subject G. Airframe inspection

Item 28. Perform airframe conformity and airworthiness inspections.

Project 1

Purpose: The student will accomplish a 100-hour inspection or annual inspection of the airplane and record the conditions disclosed as a result of the inspection.

References:

- (1) 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 1 (FAA-H-8083-31) Chapter
- (2) Federal Aviation Regulations for Aviation Maintenance Technicians, FAR Part 91:409, Part 43:13, Part 43:15, Part 43:16, and Part 43 Appendix D.
- (3) Piper Comanche 250 Maintenance manual
- (4) Piper Aircraft Corporation Inspection Report PA-24/24-250/260/400 Comanche, PN 230-203 (Meets requirements of FAR Part 43)

Equipment and Tools Needed:

- (1) Comanche PA-24-250 Aircraft
- (2) Set of jacks for PA-24-25
- (3) Appropriate Shop tools and Equipment
- (4) Personal Protection Equipment (PPE)

Supplies and Materials Needed:

- (1) Hydraulic fluids, oil and grease
- (2) Cleaning solutions
- (3) Filters and O-Rings

Procedure:

- (1) The student will familiarize himself with all necessary paperwork requirements of the inspection insuring that the aircraft conforms to FAA specifications, latest applicable FAA Airworthiness Directives and that all Manufactures Manuals, Alert Notices are up to date and current.

- (2) The aircraft will be opened up to expose all areas that will be inspected, each subsection of the inspection will be accomplished and recorded in the appropriate area.
- (3) Any discrepancy will be reviewed, repaired or reworked and returned to an airworthy condition.
- (4) When the inspection has been completed the aircraft will be closed up, an operational inspection and run up completed.
- (5) Aircraft equipment list, weight and balance and FAA form(s) 337 (if applicable) will be reviewed and in the aircraft and in proper order.
- (6) Appropriate entries will be made in the aircraft and engine log books.

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