



# Flight Simulator Checkout

Approved 04/16/2017, supersedes all previous versions

## I. Manuals, Guides, and System Overview

- Ensure the new user can locate and has reviewed the following documents prior to the checkout
  - Qualification and Approval Guide*
  - System Startup and Shutdown Manual*
  - Avionics Manual*
  - Instructor Operator Station (IOS) Manual*
- Conduct a brief overview & identify the locations of all AATD components  
Power supply box, computer, WiFi router, projector & screens, IOS, flight deck
- Conduct a thorough introduction of the AATD flight deck and its elements
  - All instruments, switches, & controls
    - NOTE:** Circuit breakers can be pulled but have no effect on the system
    - NOTE:** Expect slight lags or delays between analog inputs and digital system recognition
  - Hobbs meter - used to record chargeable time while master switch is on (same as rental aircraft)
  - Headset jacks for pilot and instructor
  - Flight deck lighting (overhead from rear and under dash)

## II. System Start & Setup

- Complete the step-by-step startup checklist (ref. *System Startup and Shutdown Manual*)
- Complete these scenario setup steps
  - Complete the Startup Checklist (ref. *System Startup and Shutdown Manual*)
  - Safely enter & exit the flight deck
    - CAUTION:** Use care to lift & open doors without bumping projector screens!
  - (optional) Connect electronic flight bag (EFB) to the AATD WiFi network

## III. Operations

- Conduct a short flight: Use checklists, takeoff, fly a pattern, and land at Green Castle airport (IA24)
- Practice inducing system failures
  - Loss of oil pressure (Engines -> Accessory -> Oil Pump 1)
  - Alternator failure (Systems -> Electrical -> Generator 1)
  - Vacuum pump failure (Instruments -> Sensor -> Vacuum Pump #1 & Vacuum Pump #2)
  - Turn coordinator (Instruments -> Primary -> Pilot Turn Indicator)
  - Pitot tube blockage (Instruments -> Sensor -> Pitot-tube #1 blockage)
  - Flap malfunction (Control surfaces -> Lock at current -> Left/Right flap 1: Lock)

## IV. System Shutdown

- Complete the step-by-step Shutdown Checklist (ref. *System Startup and Shutdown Manual*)

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Date

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Print Instructor Name

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Instructor Signature

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