



SPECIFICATION

Aircraft Cockpit Instrument Training Set (CBT-100A) is a complete and fully functional simulation of a typical aircraft cockpit. It includes essential flight, engine, and pitot-static instruments. This training set provides hands-on maintenance training while also functioning as a demonstration tool for instructors. It demonstrates the principles of gyros, altimeter, and engine instruments, and can also be used for teaching instrument removal and replacement.

NOTE: The trainer can be customized with sensors and indicators according to your training needs. Please contact us for your special requests. This trainer also allows performing practical tasks of **EASA PART 147 ATA-31-00-00**.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Specifications

Features

- The system combines "Cockpit analog flight instrumentation", "primary flight instrumentation", "aircraft systems instrumentation" and "engine instrumentation".
- Trainer uses Digital ADAHRS (Air Data and Attitude Heading and Reference Systems).
- "Air Data and Attitude Heading and Reference Systems" provide highly accurate and reliable referencing of aircraft position, rate, vector, and acceleration data.
- Three degrees of freedom instrument panel permits full demonstration of attitude and directional gyro functions.
- Functional engine monitoring system can be connected to engine sensors.
- All analog instruments operate manually.
- Primary flight display is mounted on a panel that can simulate roll, pitch, and yaw movements controlled by a mechanism operated by a control yoke.
- Provision of engine sensor simulation.
- Pitot-static system to conduct pitot-static system checks for digital instruments at the trainer.
- Instructor's panel for fault insertion.

Components

Displays & Modules

- PFD Screen
- MFD Screen
- Engine Data Modules
- Analog instruments

Flight Instruments

- Attitude Gyro and Indicator
- Directional Gyro / Heading Indicator
- Airspeed Indicator
- Altimeter
- Vertical Speed Indicator
- Turn and Slip Indicator

Engine Instruments

- Fuel Temp/Press Indicator
- Oil Temp/Press Indicators
- Fuel Level Indicator
- MAP
- RPM
- Vacuum Gauge

Sensors

- Oil Temperature Sensor
- Carburetor Air Temp Sensor
- Manifold Pressure Sensor

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- Fuel Level Sensor
- Oil Pressure Sensor
- Fuel Pressure Sensor
- Engine RPM Sensor
- Fuel Flow Sensor
- Ammeter Shunt
- CHT Thermocouples (Qty 4)
- EGT Thermocouples (Qty 4)
- OAT Sensor
- Pitot Tube
- Static Port
- Inductive Sensor

Controls & Systems

- Aircraft circuit breakers
- Throttle Lever
- Propeller Lever

Pitot-Static System

- Pitot Tube
- Fuselage Static Port
- Alternate Static Port
- Static Source Selector Switch
- Two Test Ports for Pitot-Static Test Set

Power

- Main Power
- PDF
- Tachometer
- Turn & Slip
- Vacuum Pump

Contacts

- Pitot Heater
- L/G
- Taxi Light

Auxiliary Flight Control

- Aileron Trim
- Elevator Trim
- Flap Position

Electronic Simulation of Sensors

- Oil Temperature
- Manifold Pressure
- Engine RPM
- Oil Pressure

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- Fuel Level
- Fuel Pressure
- Sender Selector Panel

Systems

- Fuel System
- Oil System
- Vacuum Control Panel
- Static System Instrument
- MAP
- Fuel Flow

Components Technical Specs**PFD-MFD Screen****PFD Page Layout includes:**

- Airspeed Indicator
- Ground Speed (GS)
- True Airspeed (TAS)
- Airspeed Bug
- Airspeed Trend Rate
- Attitude Indicator
- Flight Path Marker
- Altimeter
- Barometer Setting (BARO)
- Altitude Bug
- Altitude Trend Rate
- Density Altitude
- Vertical Speed Indicator
- Vertical Speed (VS) Bug
- Heading Indicator / Directional Gyro

Additional Indicators

- Heading (HDG) Bug
- Slip Ball
- Angle of Attack Indicator
- OAT (Outside Air Temperature)
- Winds Aloft magnitude and vector
- Artificial Horizon / Synthetic Vision

Menu Page includes:

- Six Pack
- Terrain Alert
- Airport Flags
- HSI SRC
- Bugs

Main Menu Bar includes:

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- FPL – Flight Plan
- INFO
- MENU
- Message (NO MSG / MESSAGE / CAUTION / WARNING)

Flight Data Modules

- All sensors are solid state
- Accelerometers (3-axis)
- Rotational rate sensors (3-axis)
- Pressure transducers for air data
- Magnetometers (3-axis)

Engine Data Modules

Supports four and six-cylinder engines and measures:

- RPM
- Manifold Pressure
- Oil Temperature
- Oil Pressure
- Exhaust Gas Temperature (EGT)
- Cylinder Head Temperature (CHT)
- Fuel Levels
- Voltage
- Current
- Fuel Pressure

Additional Measurements

- Fuel Flow
- Carburetor Air Temperature
- Coolant Pressure and Temperature
- Flap and Trim Potentiometers
- External Contacts

Indicators

- Fuel Computer
- Pitch Trim Indicator
- Roll Trim Indicators
- Flap Indicator

Documentation

- User's Manual
- Study Guide
- Instructor's Guide
- Device Original Manual
- Device Original Wiring Diagrams
- Component Diagrams

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Power Specifications

- Electrical Box
- Residual Current Device
- Emergency Button
- Energy Signal Lamp
- 110 VAC 60 Hz or 220–240 VAC 50 Hz

Others

- GPS Receiver / Antenna
- Aircraft Circuit Breakers
- Throttle Lever

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