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ADF Science

CBT-100A

Aircraft Cockpit

Instrument Training Set

Description

Aircraft Cockpit Instrument Training Set is a complete and fully functional simulation of 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 the engine instruments, and also can be used for teaching of instrument removal and replacement.

Gyro function is fully demonstrated through a mechanism for instrument panel tilt, turn and swivel. A control yoke is also included to move the instruments panel, so that it simulates changes in aircraft attitude. A provision for conducting pitot static system checks through a pitot test port and a static test port is included.

We are willing to receive customer request for training solutions directed to specific needs.

Features

Digital Instruments

- Engine Monitoring Systems
 - 7-inch Digital Instrument
- Electronic Flight Information Systems
 - 7-inch Digital Instrument
- PFD (HSI-ADI-VSI-ALT-ASI)
- EMS (Engine Monitoring System)
- Fuel Level
- Amp meter
- Volt meter
- Oil press
- Oil temp
- Map



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- RPM
- GPS
- ARINC 429

Analogue Flight Instruments:

- ASI – Airspeed Indicator
- ALT – Altimeter
- VSI – Vertical Speed Indicator
- ADI- Attitude Gyro & Indicator (Artificial Horizon / Vacuum or Electric options)
- HIS – Directional Gyro (Vacuum / Electric options)
- Turn and Slip indicator (Vacuum / Electric options)
- Suction gauge for gyro (if vacuum gyros are used)

Pitot-Static System:

- Pitot Tube and Angle of Attack
- Fuselage Static Port
- Alternate Static Port
- Static source selector
- Two Test Ports for Pitot-Static Test Set Pitot Test
- Selector Switch

Electronic Simulation of Sensors:

- Oil Temperature Manifold Pressure
- Engine RPM
- Oil Pressure
- Fuel Level
- Fuel Press

Engine Instruments:

- Tachometer – Engine RPM Ind.
- MAP – Manifold Pressure Gauge
- Oil Temperature Ind.
- Oil Pressure Ind.
- Fuel Level Ind.
- Fuel Pressure Ind.
- Suction Gauge (if vacuum gyros are used)
- Voltmeter

Miscellaneous:

- Vacuum filter and vacuum pump
- Vacuum pressure regulator
- T&B Vacuum Regulator (if vacuum gyro installed)

Controls:



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- Yoke – for roll/pitch/yaw
- TQ – Throttle Control Lever
- RPM Control Lever
- ALT / ASI / VSI Simulation Control Valve

Digital Contacts

- Pitot Heater
- L/G Position

Sensors:

- Fuel Level Sensor
- Ammeter Shunt
- OAT Sensor
- CHT Thermocouples (Qty. 4)
- EGT Thermocouples (Qty. 4)
- Oil Temperature Sensor
- Manifold Pressure Sensor
- Fuel Flow Sensor
- Oil Pressure Sensor
- Fuel Pressure Sensor
- Engine RPM Sensor Pitot Test Selector Switch

Specifications

- Delivered fully assembled, tested and ready to operate
- AC power 220 Volt required
- Dimensions: 140Lx130Wx210H cm
- CBT (Computer Based Training) included