



Autopilot Trainer is an excellent resource for teaching the principles of automatic flight controls by demonstration using a complete system that encompasses all the aspects of three(3) axis autopilot.

Differences from AP-100A Model

- Rudder Pedal
- Yaw Servo
- +1 Yaw DOF System

Specifications

Features

- Indicators operate in sync with auto-pilot system
- Aircraft position controlled by yoke.
- Yoke and rudder pedal can move the control surfaces of the aircraft.
- Servos operate in sync with auto-pilot and yoke.
- 2 axis DOF + 1 DOF system
- The aircraft automatically calibrated to runway position when the trainer is turned on.
- Instructor's panel for Fault Insertion
- The system mounted on a metal/aluminum mobile stand.
- Metal/aluminum frame with 4 wheels. 2 of 4 wheels are lockable.

Components

15-inch PFD-MFD screen

- Attitude Directional Indicator(ADI)
- Directional Gyro(HSI)
- Airspeed Indicator(ASI)
- Altimeter(ALT)
- Vertical Speed Indicator(VSI)
- Turn and Slip Indicator
- Course deviation bar(CDI)
- Course Pointer
- RPM indicator
- Manifold Pressure indicator
- Engine instruments(Oil, Fuel system)

Components

- **Yoke (auto-centered)**
- **Rudder Pedal**
- **Throttle Control**
- **Pitch / Yaw / Roll servos**
- **The trainer should have auto-pilot panel.**
 - Active AP(auto-pilot) function button,
 - Active Pitch function button,
 - Active Roll function button,
 - Active ALT(altitude) function button,
 - Active V/S(vertical speed)function button,
 - Active FLC function button,
 - Active HDG(heading) function button,
 - Active FEET function Knob,
 - Active FPM function Knob,
 - Active HDG function Knob,
 - All function buttons should be illuminated.
- **Master Power and Switch panel.**
 - DC master power switch,
 - Master power lamp,
 - Beacon switch,
 - Engine Start,
 - PFD circuit breaker,
 - Auto-Pilot circuit breaker,
 - Beacon circuit breaker,
 - Circuit breaker lockout,
 - Aural warning horn,
 - Resettable master caution
- **Model Metal Aircraft**
 - Aircraft size should be minimum 1400mmx1300mm
 - Aircraft color should be white
 - Moveable Aileron/Elevator & Rudder
 - Aileron/elevator and rudder are different color
 - DOF system should operate in sync with auto-pilot(aileron/elevator/rudder) and yoke&rudder pedal.
 - The trainer should have a beacon.

Documentation

- User's Manual
- Study Guide
- Instructor's Guide
- Device's original Wiring Diagrams
- Components Diagrams

Power Specs

- Electrical box
- Residual current device
- Emergency Button
- Energy Signal Lamp
- 110 VAC 60 Hz or 220-240 VAC 50 Hz