Model	Serial Number	Tail Number
ATS-BATD II		

Operator

Setup and instrument description of the Basic Aircraft Training Device ATS-BATD II, which includes the following sections, modules and instruments to recreate to generic cockpit.

Sections. -
01 PLATFORM
02 FLIGHT INSTRUMENT PANEL
03 EQUIPMENT
04 MASTER INSTRUCTOR'S DESK
05 SHELL (fuselage)
06 EXTERNAL VISUAL SYSTEM
07 PC's and SOFTWARE

Section 01 PLATFORM

1.1 Cockpit Platform PRO

  i.   *Manufactured with a Structure of 2" x 1" tubular metals*
  ii. *Floor cover on detachable 16 caliber aluminum*
  iii. *Floor finish in synthetic Pirelli style rubber, grey color and aluminum molding*
  iv. *Oven electrostatic Paint finish*

Section 02 FLIGHT INSTRUMENTS

2.1 Main Instrument Panel Module (Cockpit & Glareshield)
Framework CNC built in 18 aluminum layers, laser cut. Set of lateral supports made of 1" metallic edges. Everything finished on electrostatic paint.
    Includes the following modules:

  i.   *Flight Console*

- *Battery switch*
- *Alternator R/L*
- *Dual magnetos R/L engine switch*
- *Starter switch*
- *Parking Brake button*
- *Avionics Master switch*
- *Fuel Pump switch*
- *Landing light switch*
- *Taxi light switch*

- *Navigation light switch*
- *Beacon light switch*
- *Strobe light switch*
- *Cowl flaps switch*
- *Pitot heat switch*
- *Flaps paddle switch*
- *Landing gear switch*
- *Landing Gear lights*
- *Rudder trim knob*

ii. **Avionic Panel**

- *GPS Model GNS 530 WAAS Control Module*
- *Bendix Style COM and NAV Radios with Active and Standby Frequencies module*
- *Bendix Style ADF module*
- *Bendix Style DME*
- *Bendix Style XPDR*
- *Bendix Style Autopilot module*
- *BARO, CRS/OBS 1, CRS/OBS 2, HDG, GYRO, ADF selectors*
- *Modular re-arrangeable/re-build preferences*

iii. **Throttle Console**

- *Throttle Quadrant SEL/MEL*
- *Electrical Elevator Trim*
- *Fuel Selector Panel*

iv. **Displays Units Pilot**. *Display Unit composed by a screen of 19", which shows information from the following aircraft cockpits (selected by the instructor station)*

- *Cessna 172*
- *Cessna 182*
- *Piper PA28*
- *Baron 58*
- *King Air 350*

Section 03   EQUIPMENT

3.1 Equipment

i. **Rudder System Pedals**
Pedal system with Control Loading Forces, manufactured on metal and aluminum intended for rude use, finished with electrostatic oven paint.
Operative on:
- *Rudder Control (Yaw)*
- *Nose Wheel Control*
- *Independent Left and Right Brakes*

ii. **Yoke**
Yoke with Control Loading Forces, manufactured on metallic materials intended for rude use, finished with electrostatic oven paint, spring system, potentiometers. Yokes manufactured on black color fiber glass
Operative on:
- *Aileron control (bank)*
- *Elevators control (pitch)*
- *Electric trim (dual)*
- *A/P disengage*
- *PTT for communications*
- *Digital clock*

iii.   *Audio System*
Audio system composed by 2 speakers including in the visual system

iv.   *Seat Crew*
Aircraft seat replica

v.   *Horometer*
Suitable for effective control of flight training device hours (including in Flight Console)

Section 04 MASTER INSTRUCTOR DESK

4.1 Section Instructor Cabin

Area designated to instructor inside flight deck, composed by:

- *Working table*
- *PC with minimal specifications established in section 07 PC's and Software*
- *Control and supervision of all simulations and induction operations*
- *21" LCD monitor for control and information display*

Section 05 SHELL (fuselage)

5.1 Structural steel system cockpit section

Open Outside shield made of fiber glass finished on smelted paint (diverse colors), folding plastic black sheets, SFT logo and flight training device type (added in both sides of the cockpit) and easy front opening for maintenance

Section 06 EXTERNAL VISUAL SYSTEM

6.1 Visual System

The External Visual System is composed by a curve 55" LED monitor and supports manufactured with a structure of tubular metals finished on oven electrostatic paint

Section 07 PC's and SOFTWARE

7.1 Computer System (1 PC)
Computer system integrated by 1 PC with the following functions:

- ***Server PC:*** *Processor INTEL CORE i7-8700k 3.2 GHZ, Turbo 4.6 GHz, 6 Nucleus, RAM Memory Hy-perX FURY Black DDR4 2666MHz, 32GB (2x16 GB), Motherboard ASUS Prime Z370-A Display Port, HDMI, DVI, M.2, USB 3.1, Video Card of 8GB Nvidia GeForce GTX 1070 GAMINGX, Solid-state Drive Samsung of 500 GB (Dual)*

7.2 Software system's
For a correct operation and management of the system, the following software is used:

- i. *PREPAR 3D v4 Professional visual generator and system motor integrator*
- ii. *FsXpand*
- iii. *Microsoft Windows 10*
- iv. *Instructor Station*
- v. *Brunner CLS2Sim*