

500

Extra EA-500 Standard Specification

◆ Powerplant and Propeller

Rolls-Royce Model 250-B17F/2
Turboprop

Rated - 450 shp, Honeywell Fuel
Controller

3,500 hr TBO (1,750 hr hot section
inspection)

MT Composite five-Blade Constant
Speed, Reversible Propeller, Woodward
Combined Governor and Overspeed
Governor

24-Volt Direct Drive Starter Generator

Chip Detector with Annunciator

Full Flow Oil Filter - External

Heated Ring Inlet

◆ Airframe

De-ice Protection – Goodrich Pneumatic
Estane/Teflon (Silver) Boots

Heated Prop

Pilot-side Heated Windscreen

Dual Heated Pitot Tubes and Stall Vane

◆ Exterior

Overall – Customer Spec - Choice of
Certified Colors

Primary Stripe – Customer Spec

Accent Stripe – Customer Spec

Registration Number – Customer Spec

◆ Avionics

Garmin GNS 530 Color LCD
MultiFunction Display GPS/Nav/Com
Indicator with Glide Slope

Garmin GNS 430 Color LCD
MultiFunction Display GPS/Nav/Com
with GI-106A Nav

Garmin GMA 340 Audio Panel with
Marker Beacons and six-place
intercom

Garmin GTX 327 Transponder

Honeywell EHSI ED461 EFIS

Honeywell EADI Attitude Indicator

Honeywell KFC-225 Autopilot with Yaw
Trim, Altitude and Vertical Speed Pre-
select with Electric Trim System

Traffic Avoidance System

Co-pilot Instruments – Airspeed,
Attitude Indicator, Altimeter,
Directional Gyro

Dual Bose Series X Pilot and Co-pilot
Headsets

Six-place Headset Interfaces

Push To Talk – Pilot and Co-pilot
Switches

◆ Weights

MTOW 4,696 lbs/ 2,130 kg

MLW 4,409lbs/ 2,000 kg

MZFW..... 4,319lbs/ 1,959 kg

MEW..... 3,086 lbs/ 1,400 kg

MFW..... 1,213 lbs/ 550 kg



◆ Aircraft Dimensions

Exterior dimensions

Wingspan 37 ft 10 in/ 11.5 m

Length 32 ft 6 in/ 9.9 m

Height..... 11 ft 0 in/ 3.4 m

Interior Cabin dimensions

Cabin Length..... 13 ft 6 in/ 4.1 m

Cabin Width 4 ft 7 in/ 1.4 m

Cabin Height 4 ft 1 in/ 1.2 m

◆ Cockpit and Cabin

Bleed Air Cabin Heating and
Electrical Defrosting System with
Ventilation Fan

DC-powered Air Conditioning System
with External Remote Activation
Control

Cabin Air Exhaust Vent

Four Cabin Fresh-air Vents

Six-place Intercom



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◆ Interior

- Four-way Adjustable Pilot and Co-pilot Seats
- Leather Seats and Armrests
- Rear Cup Holders
- Four-point Crew Shoulder Harness
- Three-point Passenger Shoulder Harness
- Cloth Headliner and Sidewalls
- Wool-blend Carpet
- Stowaway Writing Desk
- Baggage and Cargo Tie-downs
- 12v Power Outlet at Rear Seats
- Under Seat Storage

◆ Cockpit, Flight and Ground Controls

- Dual Control Wheel Yoke
- Dual Electric Elevator Trim
- Steerable Nose Wheel
- Pilot and Co-pilot Toe Brakes
- Parking Brake
- Fully Enclosed Hydraulic Retractable Landing Gear
- Landing Gear Warning Horn and Position Lights
- Preset Electrical Wing Flaps w/ Position Indicator
- Fuel Shut-off Valve
- Dual Independent Instrument Static Source

◆ Electrical and Lighting Systems

- 28-Volt, 200-Amp Generator with Long-life GCU
- Automatic Start and Cut-off Feature
- Back-up 25-Amp Alternator System with Regulator
- 24-Volt Battery (28 Amp/hr) in Fireproof Container
- Resettable-type Circuit Breakers
- GPU Accessory Panel
- Dual Cockpit Dome Lights
- Instrument Panel Lighting
- Multiple LED Eyebrow Flood Lights
- Four Overhead Cabin Reading Lights
- Ice Detection Light
- Wingtip Navigation and Strobe Lights
- Wing-mounted Recognition Lights

◆ Flight Instruments and Indicators

- Overspeed Warning System
- Dual Airspeed Indicators
- Vertical Speed Indicator - Pilot
- Turn Coordinator - Pilot
- Encoding Altimeter - Pilot
- Standard Altimeter - Co-pilot
- Magnetic Compass
- Aircraft Chronograph on Pilot Yoke
- Master Warning Panel and Annunciator Panel
- Moritz Engine Instrumentation Package
 - Torque
 - N2 (Prop rpm), N1 (Gas Generator)
 - Oil Pressure, Oil Temperature
 - TOT, OAT, Volts, Amps
 - Fuel Temperature, Fuel Flow and Fuel Pressure
 - Fuel Quantity (Left and Right)
- Shadin Air-Data Computer

◆ Fuel System

- Dual Integral Wet Wing Fuel Tanks -176 Gals/666.2 liters Usable
- Electric Main Fuel Pump
- Jet Flow Fuel Pumps
- Fuel Quick Drains
- Low-fuel Sensors
- Fuel Filter with Bypass and Annunciator
- Fuel Management Computer

◆ Fuel Parameters

- Main Tank Fuel Capacity
 - 123.6 gallons/ 468 L
 - 840lbs/ 381 kg
- Long Range Tank Fuel Capacity
 - 56 gallons/ 212 L
 - 380 lbs/ 173 kg
- Unusable Fuel
 - 3.7 gallons/ 14 L
 - 25lbs/ 11 kg
- Usable Fuel
 - 175.9 gallons /666 L
 - 1195.2 lbs /542 kg

◆ U-Speeds

- Vmo..... 219
- Vno..... 188
- Vy..... 110
- Vx 90
- Cruise Climb.....120-130
- Va.....133-156
- Vlo 140
- Vle..... 140
- Vfe 15 120
- Vfe 30 109
- Best Glide 105

◆ Certification Basis

Year 2004 - FAR Part 23, Amdt. 55, EASA/JAA

