

# vulcanair aircraft



## **P68TC Observer** turbocharged

### **STANDARD EQUIPMENT LIST**

V13.04.16



**IMPORTANT NOTE:** *this document is a general description of the aircraft equipment only. It is not a technical document and is to be used only for the purpose of generally describing the aircraft standard equipment.*

## **POWERPLANT AND PROPELLER**

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### **Engines:**

Two Textron Lycoming TIO-360-C1A6D 210HP @ 2575 RPM  
Turbocharged version Dual Ignition Magnetos, Two

### **Engine Mounts:**

Dynafocal Type, Two  
Engine shock absorber, Two

### **Oil System:**

Oil Filters Cartridge Type, Two  
Oil Coolers Full Flow, Two

### **Air Intake System:**

Air Filter Foam Type, Two  
Alternate source w/Manual Control, Two

**Geared Starter:** Two

### **Propeller:**

Hartzell, Two Blade, Constant Speed Full Feathering Propellers, Two  
Polished Propeller Spinners, Two  
Hydraulic Propeller Governor, LH  
Hydraulic Propeller Governor, RH

## **FLIGHT INSTRUMENTS AND INDICATORS**

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**DIGITAL PRIMARY DISPLAY GARMIN GDU 1040, One**

**DIGITAL MULTIFUNCTION DISPLAY GARMIN GDU 1040, One**

**Magnetic Compass (Illuminated)**

**Mid-Continent Digital Standby Attitude Module (SAM) MD-302**

**1st Heated Pitot System**

**Fuel Quantity Indicator function (Included in G950)**

**Chronometer function (Included in G950)**

**Outer Temperature**

**ELT switch remote controller**

**Engine Hour-Meter**

## **COCKPIT, FLIGHT AND GROUND CONTROLS**

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### **Dual primary Flight Controls**

### **Landing Gear, Fixed Tricycle**

### **Automatic Emergency Locator Transmitter ELT 406 MHZ**

### **Engine Control Pedestal mounted with adjustable friction:**

Throttle, Two

Propellers, Two

Mixture, Two

### **Flight Trim Controls:**

Rudder: Mechanic wheel on Pedestal with Indicator

Stabilator: Mechanic wheel on Pedestal with Indicator

Stabilator: Electric switch on control Wheel

### **Alternate Source Engine Air Inlet Control**

### **Alternate Instrument static Source and Control**

### **Heavy Duty Brake System:**

Pilot Toe Brake Cylinders

Co-pilot Toe Brake Cylinders

Parking Brake

### **Stall Warning System:**

Stall Warning Horn

Heated Stall Detector

### **Main Wheels 7.00-6 8 Ply Good Year Tyre and Tubes, Two**

### **Nose wheel 5.00-5 6 Ply Good Year Tyre and Tubes**

### **Steerable Nose Wheel (self-un-locking) with shimmy damper**

**Flap Position Electric Control:** Discrete switch for each flap setting

**Fuel Selector Two:** Normal on; Shut-off; Crossfeed positioning

### **Overhead Panel Rocker Switches Internally Lighted:**

Guarded Left and Right Starter Two

Left and Right Fuel Pump Two

Guarded Left Engine/Left and Right Magnetos Switches Two

Guarded Right Engine/Left and Right Magnetos Switches Two

Map Light Switch

### **Mic Button on Control Wheel**

### **Headset Bose A20, Two**

### **Bose 6 Pin Redel Connector, Six**

### **Mic /Phone Jacks, Six**

### **Rocker Switches on Master Switches Panel (pilot's left side):**

Battery Master

RH Gen

LH Gen

Instruments & Radio Lights

Avionics BUS Master

Secondary BUS Master

Instruments Light Dimmer

Cabin Air Hot/Defrost Control Panel

**LH Switches Panel**

Landing Light  
Navigation Lights  
Stall Heated detector  
Pitot Heat  
Strobe Light  
Taxi Light  
Ice Inspection Light

**RH Switches Panel**

A/P Master  
A/P Elect. Trim

***ELECTRICAL SYSTEMS***

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**24 Volt, 19 Amp/Hour Battery (Concorde RG24-20)**  
**130 A Alternator 28Vdc, Two**  
**Voltage Regulators, Two**  
**Resettable Circuit Breakers**  
**External Power Supply Receptacle**  
**Static Discharge Wicks**

***FUEL SYSTEM***

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**Two Fuel Tanks** with 142 Gallons (538 litres) Total Capacity; 138 Gallons Usable (520 Litres)

**Auxiliary Electric Pump, Two**

**Individual Fuel Tank Quick Drain, Two**

**Fuel Strainer, Two**

**Fuel Filter, Two**

**Fuel Gascolator Two**

***LIGHTING SYSTEMS***

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**EXTERIOR LIGHTING:**

**Navigation Light (LED)**

**Recognition Lights Wing Tip, Two (LED)**

**Strobe Lights-Comet Flash Wing Tip, Two (LED)**

**Strobe Light Tail (LED)**

**Taxi Light Wing Mounted (LED)**

**Landing Light Wing Mounted (LED)**

**Ice Inspection Light, Left Wing**

**INTERIOR LIGHTING:**

**Map swivel light with touch sensing control, Two (LED)**

**Under-wing Courtesy Light, One (left side)**

**Cabin Reading Lights, Four**

**Internally Lighted Rocker Switches**

***CABIN COMFORT SYSTEM***

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**Cabin Air Heating System**

**Fan Heater/Windshield Defrost**

**Cabin Fresh Air Vent with Ventilation Fan**

**Overhead Cabin Fresh Air Distribution Vents, Two**

**Cabin Door**

**Rear Cargo Door**

**Emergency Escape Window**

**Soundproofing**

***EXTERNAL FEATURES***

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**Standard paint scheme**

**Full Chemical Corrosion Protection**

**Tow Bar**

**Tie-Down Rings, Three**

**Jack Pads**

**Control Surface Lock Kit (Tail + Aileron)**

**Locks with Keys Cabin and Baggage Doors**

## ***COCKPIT AND CABIN APPOINTMENTS***

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**Speaker**

**Luggage Compartment (24 Cu.Ft., 400Lbs)**

**Pilot and Co-Pilot Seats reclining fore/aft and vertical adj., with magazine storage pockets on back;**

**Rear Passenger seat with reclining feature and fore/aft adjustable (2<sup>ND</sup> Row), Two.**

**Rear Passenger Seat (3<sup>rd</sup> Row), Two.**

**Three Point Seat Belts and Inertial Reel, Six**

**Lightweight Carpeting**

**Pilot and Co-pilot Storm Windows**

**Sunvisor, Two**

**24 Volt, 5 Amp Auxiliary Power Socket, Three**

**Map Pockets, Two**

**Emergency Torch**

**First Aid Kit**

**Manual Fire Extinguisher**

**Pitot Tube Cover**

**Fuel Stick Gauge**

## ***PRODUCT SUPPORT DOCUMENTS***

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**Flight Manual,**

**Parts Catalogue,**

**Maintenance Manual**

**Vulcanair Limited Warranty**

**OEM Manufactures Limited Warranty**

**Aircraft Log Book**

**Engine Log Book, Two**

**Statement of Conformity**



**NEW GENERATION AVIONICS PACKAGE**

**AUTOPILOT TWO AXIS S-TEC SYSTEM 55X**

**GARMIN G950 INTEGRATED COCKPIT SYSTEM:**

- DIGITAL PRIMARY DISPLAY GARMIN GDU 1040, CONTROL/DISPLAY UNIT, ONE**
- DIGITAL MULTIFUNCTION DISPLAY GARMIN GDU 1040, CONTROL/DISPLAY UNIT, ONE**
- AHRS GARMIN GRS 77/GMU 44, ONE**
- TRANSPONDER GARMIN GTX 33 MODE S**
- AUDIO PANEL WITH MARKER BEACON AND INTERCOM GMA 1347**
- GIA63W COMM/NAV/GS/GPS INTEGRATED AVIONIC UNITS, TWO**
- AIR DATA COMPUTER GARMIN GDC74A**
- ENGINE INTERFACE UNIT GARMIN GEA71, TWO**



**Note: Cockpit shown with some optional equipment**