



# Turbo Commander 690A/B

## Specifications and Performance

### DIMENSIONS

	FEET
Wing Span	46.67
Length	44.35
Height	14.95
Tread	15.42
Cabin Entry Door	2.21 x 3.92
Cabin Height	4.47
Cabin Width	4.12
Cabin Length	14.25
Cabin Volume (Cubic ft)	224.00
Baggage Volume (Cubic ft)	45.00
Baggage Door Height	2.60
Baggage Door Width	1.64

### WEIGHTS

	POUNDS
Ramp Weight	10,375
Takeoff Weight (690A)	10,250
Takeoff Weight (690B)	10,325
Landing Weight	9,675
Typical Empty Weight	6,775
Useful Load	3,575
Zero Fuel Weight	8,750
Baggage Compartment	600

### FUEL

	GALLONS
Fuel, Total Capacity (Gal)	389
Fuel, Usable (Gal)	384

### LOADING

Wing Area	266 Sq. Ft.
Wing Loading	38.53 Lbs/Sq. Ft.
Power Loading	7.32 Lbs/SHP

### POWER PLANT

Honeywell TPE331-5-251 K Single Shaft Turbo-prop with integral gearbox, two stage centrifugal compressor, three stage axial turbine, single annular combustion chamber.

### ENGINE LIMITS

	SHP	RPM	ITT
Takeoff	717.5	1591	923C
Max Continuous	717.5	1591	923C

Overhaul Intervals	5,400 hours
Hot Section Intervals	1,800 hours
Gear Box intervals	3,600 hours

### OPERATING SPEEDS

	KTAS
(at 10,250 lbs, unless otherwise noted)	
Maximum Speed (100% 12,000 ft, TAS)	285
Normal Cruise (96%, 20,000 Ft., TAS)	275
Twin Engine Best Rate of Climb, CAS	161
Twin Engine Best Angle of Climb, CAS	133
Single Engine Best Rate of Climb, CAS	132
Single Engine Best Angle of Climb, CAS	109
Minimum Control Speed, CAS	99
Stall Speed, Clean	78
Stall Speed, Gear & Flaps Down, CAS	75

### CLIMB

	Ft/Min.
Twin Engine Initial Rate of Climb (0 Flaps)	2,849
Time to Climb to 10,000 ft (Minutes)	4.0
Time to Climb to 20,000 ft (Minutes)	10.0
Single Engine Rate of Climb (0 Flaps)	893

### CEILING

	FEET
Operational Ceiling Limit	31,000
Twin Engine Service Ceiling	33,000
Twin Engine Absolute Ceiling	34,000
Single Engine Service Ceiling	19,700
Single Engine Absolute Ceiling	20,600
Maximum Pressurization Differential (PSI)	5.2

### TAKE OFF

	FEET
Take Off Distance Ground Roll (0 Flaps)	1,434
Take Off Distance over 50 ft Obstacle	2,216
Short Field T.O. over 50 ft Obstacle	1,666

### LANDING

	FEET
Landing Distance - with Reverse	1,606
Landing Distance - Over 50 ft Obstacle	2,084

### PROPELLERS

Hartzell 102 Inch Diameter, 3-Blade, Constant Speed, Full Feathering and Reversible

### PERFORMANCE CONDITIONS

Performance estimations are based upon U.S. Standard (1962) atmospheric conditions and performance is contingent upon engine manufacturer's performance as indicated in FAA Type Certificate. All speeds within plus or minus 3% and all climbs, ranges and altitudes are within plus or minus 8%. All information was taken from the Manufacturer's publications and is subject to change and buyer's verification.

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# Turbo Commander 690A/B

## Estimated Operating Costs

### **Fuel** **\$ 448.50**

Fuel Costs/Gallon	\$	5.75
Fuel Burn/Hour (Gallons)	\$	78.00

### **Maintenance** **\$ 355.03**

Labor/Hour	\$	118.00
Parts/Hour	\$	75.00
Engine Reserves (Overhaul, Hot Section, Gearbox)	\$	139.57
Prop Overhaul	\$	14.40
Miscellaneous Flight Expenses	\$	8.06

### **Total Direct Costs Per Hour** **\$ 803.53**

Average Block Speed (MPH)		295
Cost Per Statute Mile	\$	2.72

### **Hangar Costs** **\$ 8,500**

### **Insurance** **\$ 17,800**

Hull	\$	13,000
Legal Liability	\$	4,800

### **Miscellaneous Overhead** **\$ 15,000**

Training	\$	7,000
Aircraft Modernization	\$	5,000
Navigation Equipment	\$	3,000

### **Total Fixed Costs** **\$ 41,300**

### **Annual Budget Utilization**

Number of Seats		7
Miles		85,500
Hours		290
Direct Cost	\$	233,024
Fixed Cost	\$	41,300
Total Cost	\$	274,324
Cost/Hour	\$	945.94
Cost/Statute Mile	\$	3.21
Cost/Seat Mile	\$	0.46

\*\*All information is subject to change and buyer's verification\*\*