

850 Caravan TPE331-12JR Conversion by 850 LLC



**MORE POWER. MORE PERFORMANCE.
MORE PROFIT.**

**Enhanced operational efficiency
for Cessna 208 Caravan operators**

Honeywell

850
caravan

850 Caravan TPE331 -12JR Conversion

A Cessna Caravan conversion with Honeywell's TPE331 -12JR improves take-off, landing, climb and cruise performance, while reducing fuel burn, lowering operating costs and enhancing the efficiency of your operation. The conversion is available for all Cessna 208 series airframes: landplane, seaplane and amphibian configuration.

Operator Benefits* include:

- Cruise 168 KTAS at 8000 ft. at 75% power on 388 pph fuel
- Cruise 186 KTAS at 20,000 ft. at 77% power on 318 pph fuel
- Up to 11% higher maximum speed
- Up to 4.4% better fuel burn
- Enhanced Take-off Performance
 - 24% shorter at sea level
 - 23% shorter at 6,000 ft.
 - 19% shorter at 10,000 ft.
- Improved rate of climb
 - 23% improved at sea level
 - 33% improved at 12,000 ft.
 - 81% improved at 20,000 ft.

* Data calculated for wheel equipped aircraft without cargo pod at ISA conditions. Data was collected during actual Aero Twin Inc. FAA certification testing under TIA and is pending final FAA approval.

Outstanding TPE-331 Service and Support:

Honeywell provides highly specialized product support and aftermarket repair and overhaul services for all engine components and systems. A global network of experienced engineers and support specialists is available 24 hours a day, seven days a week, 365 days a year.

Find out more

For more information on the 850 Caravan, contact your Aero Twin representative at (907) 274-6166 or visit www.850caravan.com. For further information on Honeywell engines or other aviation products, contact us at 800-601-3099.

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Specification	OEM Caravan	850 Caravan*
Engine	PT6A-114A	TPE331-12JR-701S
Horsepower	675	850
Torque (ft-lbs)	1865	2806
TBO (hrs)	3600	7000
Useful Load (wheels, lbs)	4165	4314
Useful Load (floats, lbs)	3140	3289
Std Empty Weight (wheels, lbs)	3835	4046
Std Empty Weight (floats, lbs)	4895	5106
Max Gross Weight (wheels, lbs)	8000	8360
Max Gross Weight (floats, dock, lbs)	8000	8395
Max Landing Weight (lbs)	7800	7800
Climb (ISA, GW, wheels, ft/min)	1226	1460
Climb (ISA, GW, floats, ft/min)	1030	1400
Time to Climb to 24,000 ft (GW, wheels)	37 min	29 min
Max Cruise (10,000 ft, wheels, KTAS)	185@379 pph	190@405 pph
Max Cruise (10,000 ft, floats, KTAS)	162@379 pph	175@400 pph
Economy Cruise (10,000 ft, wheels, KTAS)	166@308 pph	144@268 pph
Take Off Wheels (ft)	1185	1025
Take Off Amphibs (land, ft)	1100	1000
Take Off Amphibs (water, ft)	2085	1565
Landing Wheels (ft)	713	700
Landing Amphib (land, ft)	735	700
Landing Amphib (water, ft)	1122	850
Power Loading (lbs/hp)	11.9	9.8
Stall Speed (clean, KIAS)	76	76
Stall Speed (landing, KIAS)	57	57
Cargo Volume (cu ft)	254	276
Maximum Range (wheels, 20,000 ft, NM, +0.75 hr reserve)	1295	1224
Max. Endurance / Loiter Time (hrs)	7	10

*FINAL flight test data, collected under FAA TIA.

Standard atmospheric conditions, engine derated to simulate 7000 hours total time in service. All amphib data collected with float paddles, float ropes, seaplane steps, gear mirrors and ADF antenna installed.

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