

Approved Engine Options: TCDS and STC Approvals

Updated August 2021

Model	Standard Engine	HP (max)	Optional by TCDS		Approved by STC			STC holder/notes
			Engine	HP (max)	Engine	HP (max)	STC #	
35	E-165	165						
	E-185-1	185						
			E-185-8	196				
			E-185-11	196				Installation requires rework of engine mounts IAW Beech instructions
			E-225-8	185				Installation requires rework of engine mounts IAW Beech instructions
					n/a	n/a	n/a	No STC-approved alternative engines
A35	E-185-1	185						
			E-185-8	196				
			E-185-11	196				Installation requires rework of engine mounts IAW Beech instructions
			E-225-8	225				Installation requires rework of engine mounts IAW Beech instructions
					E-225-8 (mod)	225	SA01168SE	Modified cylinders and propeller. Aviation Research Systems, Inc.
					IO-470C	250	SA09603SC	Hammock Aviation
					IO-470N	260	SA09603SC	Hammock Aviation
					IO-470J	225	SA1-569	D'Shannon Aviation
				IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation	
				IO-550B	300	SA2200SW	D'Shannon Aviation	
B35	E-185-8	196						
			E-225-8	225				
					E-225-8 (mod)	225	SA01168SE	Modified cylinders and propeller. Aviation Research Systems, Inc.
					IO-470C	250	SA09603SC	Hammock Aviation
					IO-470N	260	SA09603SC	Hammock Aviation
					IO-470J	225	SA1-569	D'Shannon Aviation
					IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2200SW	D'Shannon Aviation
C35	E-185-11	205						
			E-225-8	225				
			GO-435-D1	260				Lycoming geared engine. Rawdon Bros. Aircraft, Inc., (unsupported)
					E-225-8 (mod)	225	SA01168SE	Modified cylinders and propeller. Aviation Research Systems, Inc.
					IO-470C	250	SA09603SC	Hammock Aviation
					IO-470N	260	SA09603SC	Hammock Aviation
					IO-470J	225	SA1-569	D'Shannon Aviation
					IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2200SW	D'Shannon Aviation
				TIO-540-J2BD	350	SA604NW	Machen, Inc.	
35R	E-185-8	196						
			E-225-8	225				
				IO-470J	225	SA1-569	D'Shannon Aviation	
D35	E-185-11	205						
			E-225-8	225				
			GO-435-D1	260				Lycoming geared engine. Rawdon Bros. Aircraft, Inc., (unsupported)
					E-225-8 (mod)	225	SA01168SE	Modified cylinders and propeller. Aviation Research Systems, Inc.
					IO-470C	250	SA09603SC	Hammock Aviation
					IO-470N	260	SA09603SC	Hammock Aviation
				IO-470J	225	SA1-569	D'Shannon Aviation	

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					IO-520B, BA, BB IO-550B TIO-540-J2BD	285 300 350	SA2200SW SA2200SW SA604NW	D'Shannon Aviation D'Shannon Aviation Machen, Inc.
E35	E-185-11	205						
			E-225-8	225				
					E-225-8 (mod) IO-470C IO-470N IO-470J IO-520B, BA, BB IO-550B TIO-540-J2BD	225 250 260 225 285 300 350	SA01168SE SA09603SC SA09603SC SA1-569 SA2200SW SA2200SW SA604NW	Modified cylinders and propeller. Aviation Research Systems, Inc. Hammock Aviation Hammock Aviation D'Shannon Aviation D'Shannon Aviation D'Shannon Aviation Machen, Inc.
F35	E-185-11	205						
			E-225-8	225				
					E-225-8 (mod) IO-470J IO-520B, BA, BB IO-550B TIO-540-J2BD	225 225 285 300 350	SA01168SE SA1-569 SA2200SW SA2200SW SA604NW	Modified cylinders and propeller. Aviation Research Systems, Inc. D'Shannon Aviation D'Shannon Aviation D'Shannon Aviation Machen, Inc.
G35	E-225-8	225						
			n/a	n/a				
					E-225-8 (mod) IO-470C IO-470N IO-470J IO-520B, BA, BB IO-550B TIO-540-J2BD	225 250 260 225 285 300 350	SA01168SE SA09603SC SA09603SC SA1-569 SA2200SW SA2200SW SA604NW	Modified cylinders and propeller. Aviation Research Systems, Inc. Hammock Aviation Hammock Aviation D'Shannon Aviation D'Shannon Aviation D'Shannon Aviation Machen, Inc.
H35	O-470G	240						
			O-470-GCI	240				Modified to fuel injection IAW Beech drawing 35-001032
					IO-470N IO-520B, BA, BB IO-550B Turbonormalizer TIO-540-J2BD TIO-540-K1A5	260 285 300 240 350 350	SA2660SW SA2200SW SA2200SW SA1252WE SA604NW SA1773NM	D'Shannon Aviation D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. O-470GCI only. Parts support but no new systems. Machen, Inc. Raineri Ray (likely no longer supported)
J35	IO-470C	250						
			n/a	n/a				
					IO-520B, BA, BB IO-550B Turbonormalizer 470 to 520 cu in TIO-540-J2BD TIO-540-K1A5	285 300 250 285 350 350	SA2200SW SA2200SW SA1252WE SA02363CH SA604NW SA1773NM	D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. IO-470 only Parts support but no new systems Cygnet Aerospace Machen, Inc. Raineri Ray (likely no longer supported)
K35	IO-470C	250						
			n/a	n/a				

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					IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2200SW	D'Shannon Aviation
					470 to 520	285	SA02363CH	Cygnit Aerospace
					Turbonormalizer	250	SA1252WE	Rayjay Parts, LLC. IO-470 only Parts support but no new systems
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
M35	IO-470C	250	n/a	n/a				
					IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2200SW	D'Shannon Aviation
					Turbonormalizer	250	SA1252WE	Rayjay Parts, LLC. IO-470 only Parts support but no new systems
					470 to 520 cu in	285	SA02363CH	Cygnit Aerospace
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
N35	IO-470N	260	n/a	n/a				
					IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2200SW	D'Shannon Aviation
					Turbonormalizer	260	SE96SO	Rayjay Parts, LLC. IO-470N only. Parts support but no new systems
					470 to 520 cu in	285	SA02363CH	Cygnit Aerospace
					Turbonormalizer	260	SA1252WE	Rayjay Parts, LLC. IO-470 only Parts support but no new systems
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
P35	IO-470N	260	n/a	n/a				
					IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2200SW	D'Shannon Aviation
					Turbonormalizer	260	SE96SO	Rayjay Parts, LLC. IO-470N only. Parts support but no new systems
					Turbonormalizer	260	SA1252WE	Rayjay Parts, LLC. IO-470N only. Parts support but no new systems
					Turbonormalizer	260	SE96SO	Rayjay Parts, LLC. IO-470N only. Parts support but no new systems
					470 to 520 cu in	285	SA02363CH	Cygnit Aerospace
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
S35	IO-520B, BA	285	IO-520BB	285				
					IO-550B	300	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA1835SO	Colemill Enterprises
					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					Turbonormalizer	285	SA8676SW	Western Skyways. IO-520 only
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					IO-550R	310	SA10145SC	Summit Aviation
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC
					TIO-540-J2BD	350	SA762NW	Machen, Inc.
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
V35	IO-520B, BA, BB	285						

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			TSIO-520D	285				STC STC SA1035WE factory option sold as V35TC (STC currently owned by Allied Signal Aerospace and is unsupported)
					IO-550B	300	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2682NM	Flightcraft, Inc.
					IO-550B	300	SA1835SO	Colemill Enterprises
					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					Turbonormalizer	285, 300	SA8676SW	Western Skyways
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					IO-550R	310	SA10145SC	Summit Aviation
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC
					TIO-540-J2BD	350	SA762NW	Machen, Inc.
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
V35A	IO-520B, BA, BB	285	TSIO-520D	285				STC STC SA1035WE factory option sold as V35A-TC (STC currently owned by Allied Signal Aerospace and is unsupported)
					IO-550B	300	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2682NM	Flightcraft, Inc.
					IO-550B	300	SA1835SO	Colemill Enterprises
					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					Turbonormalizer	285, 300	SA8676SW	Western Skyways
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					IO-550R	310	SA10145SC	Summit Aviation
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC
					TIO-540-J2BD	350	SA762NW	Machen, Inc.
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
V35B	IO-520B, BA, BB	285	IO-520N	285				Engine with automatic power control system IAW Beech drawing
			TSIO-520D	285				STC STC SA1035WE factory option sold as V35B-TC (STC currently owned by Allied Signal Aerospace and is unsupported)
					IO-550B	300	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2682NM	Flightcraft, Inc.
					IO-550B	300	SA1835SO	Colemill Enterprises
					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					Turbonormalizer	285, 300	SA8676SW	Western Skyways
					IO-550R	310	SA10145SC	Summit Aviation
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC
					TIO-540-J2BD	350	SA762NW	Machen, Inc.
					TIO-540-J2BD	350	SA604NW	Machen, Inc.
					TIO-540-K1A5	350	SA1773NM	Raineri Ray (likely no longer supported)
35-33	IO-470J	225	IO-470K	225				Requires revision to induction valve engine controls IAW Beech data
					IO-470C	250	SA09603SC	Hammock Aviation
					IO-470N	260	SA09603SC	Hammock Aviation

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					IO-520B, BA, BB IO-550B Turbonormalizer	285 300 260	SA2200SW SA2200SW SA1252WE	D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. IO-470 only Parts support but no new systems
35-A33	IO-470J	225						
			IO-470K	225				Requires revision to induction valve engine controls IAW Beech data
					IO-470C IO-470N IO-520B, BA, BB IO-550B Turbonormalizer	250 260 285 300 260	SA09603SC SA09603SC SA2200SW SA2200SW SA1252WE	Hammock Aviation Hammock Aviation D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. IO-470 only Parts support but no new systems
35-B33	IO-470J	225						
			IO-470K	225				Requires revision to induction valve engine controls IAW Beech data
					IO-470C IO-470N IO-520B, BA, BB IO-550B Turbonormalizer	250 260 285 300 260	SA09603SC SA09603SC SA2200SW SA2200SW SA1252WE	Hammock Aviation Hammock Aviation D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. IO-470 only Parts support but no new systems
35-C33	IO-470K	225						
			n/a	n/a				
					IO-470C IO-470N IO-520B, BA, BB IO-550B Turbonormalizer	250 260 285 300 260	SA09603SC SA09603SC SA2200SW SA2200SW SA1252WE	Hammock Aviation Hammock Aviation D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. IO-470 only Parts support but no new systems
35-C33A	IO-520B, BA	285						
			IO-520BB	285				
					IO-550B IO-550B Turbonormalizer TSIO-520D IO-550R IO-550B IOF-550 IO-550B TIO-540-J2BD	300 300 285, 300 285 310 300 300 300 350	SA2200SW SA1835SO SA5223NM SA2556WE SA10145SC SA09852SC SA10074SC SA09619SC SA762NW	D'Shannon Aviation Colemill Enterprises Engine Technologies, Inc. (Tornado Alley Turbo) Rayjay Parts, LLC. Parts support but no new systems Summit Aviation General Aviation Modifications, Inc. Teledyne Continental Motors. FADEC Hammock Aviation Machen, Inc.
E33	IO-470K	225						
			n/a	n/a				
					IO-470C IO-470N IO-520B, BA, BB IO-550B Turbonormalizer	250 260 285 300 260	SA09603SC SA09603SC SA2200SW SA2200SW SA1252WE	Hammock Aviation Hammock Aviation D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. IO-470 only Parts support but no new systems
E33A	IO-520B, BA	285						
			IO-520BB	285				
					IO-550B IO-550B	300 300	SA2200SW SA1835SO	D'Shannon Aviation Colemill Enterprises

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					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					IO-550R	310	SA10145SC	Summit Aviation
					IO-550B	300	SA09852SC	General Aviation Modifications, Inc.
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC
					TIO-540-J2BD	350	SA762NW	Machen, Inc.
E33C	IO-520B, BA	285						
			IO-520BB	285				
					IO-550B	300	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA1835SO	Colemill Enterprises
					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					IO-550R	310	SA10145SC	Summit Aviation
					IO-550B	300	SA09852SC	General Aviation Modifications, Inc.
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC
					IO-550B	300	SA09619SC	Hammock Aviation
					TIO-540-J2BD	350	SA762NW	Machen, Inc.
F33	IO-470K	225						
			n/a	n/a				
					IO-470C	250	SA09603SC	Hammock Aviation
					IO-470N	260	SA09603SC	Hammock Aviation
					IO-520B, BA, BB	285	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2200SW	D'Shannon Aviation
					Turbonormalizer	260	SA1252WE	Rayjay Parts, LLC. IO-470 only Parts support but no new systems
F33A	IO-520B, BA	285						
			IO-520BB	285				
					IO-550B	300	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA2682NM	Flightcraft, Inc.
					IO-550B	300	SA1835SO	Colemill Enterprises
					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					Turbonormalizer	285, 300	SA8676SW	Western Skyways
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					IO-550R	310	SA10145SC	Summit Aviation
					IO-550B	300	SA09852SC	General Aviation Modifications, Inc.
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC
					IO-550B	300	SA09619SC	Hammock Aviation
					TIO-540-J2BD	350	SA762NW	Machen, Inc.
F33C	IO-520B, BA	285						
			IO-520BB	285				
					IO-550B	300	SA2200SW	D'Shannon Aviation
					IO-550B	300	SA1835SO	Colemill Enterprises
					Turbonormalizer	285, 300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
					TSIO-520D	285	SA2556WE	Rayjay Parts, LLC. Parts support but no new systems
					IO-550R	310	SA10145SC	Summit Aviation
					IO-550B	300	SA09852SC	General Aviation Modifications, Inc.
					IOF-550	300	SA10074SC	Teledyne Continental Motors. FADEC

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					IO-550B TIO-540-J2BD	300 350	SA09619SC SA762NW	Hammock Aviation Machen, Inc.
G33	IO-470N	260	n/a	n/a				
					IO-520B, BA, BB IO-550B Turbonormalizer 470 to 520 cu in IO-550B IO-550B	285 300 260 285 300 300	SA2200SW SA2200SW SE96SO SA02363CH SA09852SC SA09619SC	D'Shannon Aviation D'Shannon Aviation Rayjay Parts, LLC. IO-470N only. Parts support but no new systems Cygnet Aerospace General Aviation Modifications, Inc. Hammock Aviation
36	IO-520B, BA	285	IO-520BB	285				
					IO-550B IO-550B IO-550B Turbonormalizer Turbonormalizer IO-550R IO-550B IOF-550 TSIO-520D TIO-540-J2BD	300 300 300 285, 300 285, 300 310 300 300 285 350	SA2200SW SA2682NM SA1835SO SA5223NM SA8676SW SA10145SC SA09852SC SA10074SC SA994NW SA762NW	D'Shannon Aviation Flightcraft, Inc. Colemill Enterprises Engine Technologies, Inc. (Tornado Alley Turbo) Western Skyways Summit Aviation General Aviation Modifications, Inc. Teledyne Continental Motors. FADEC Flightcraft, Inc. Machen, Inc.
A36*	IO-520B, BA	285	IO-520BB	285				*E-185 through E-2110 except E-1946, E-2104 Standard E-1371 and after
					IO-550B IO-550B IO-550B Turbonormalizer Turbonormalizer IO-550R IO-550B IOF-550 TSIO-520D TIO-540-J2BD	300 300 300 285, 300 285, 300 310 300 300 285 350	SA2200SW SA2682NM SA1835SO SA5223NM SA8676SW SA10145SC SA09852SC SA10074SC SA994NW SA762NW	D'Shannon Aviation Flightcraft, Inc. Colemill Enterprises Engine Technologies, Inc. (Tornado Alley Turbo) Western Skyways. Summit Aviation General Aviation Modifications, Inc. Teledyne Continental Motors. FADEC Flightcraft, Inc. Machen, Inc.
A36**	IO-550B	300	n/a	n/a				**E-1946, 2104, E-2111 and after
					Turbonormalizer Turbonormalizer IO-550R IOF-550 TIO-540-J2BD	300 300 310 300 350	SA5223NM SA8676SW SA10145SC SA10074SC SA762NW	Engine Technologies, Inc. (Tornado Alley Turbo) Western Skyways. Summit Aviation Teledyne Continental Motors. FADEC Machen, Inc.
A36TC	TSIO-520U, UB	300	n/a	n/a				TSIO-520UB EA-2 and after
					IO-550B + TN	300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
B36TC	TSIO-520UB	300	n/a	n/a				

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					IO-550B + TN	300	SA5223NM	Engine Technologies, Inc. (Tornado Alley Turbo)
G36	IO-550B	300	n/a	n/a				
					IO-550R Turbonormalizer	310 300	SA10145SC SA5223NM	Summit Aviation Engine Technologies, Inc. (Tornado Alley Turbo) G36 not listed in FAA STC database. Applicability confirmed by STC holder.

See TCDS for specific requirements and limitations for TCDS optional engines

See STC and/or STC Pilot's Operating Handbook STC Supplement for requirements and limitations for STC'd engines

Optional engines coming soon

Model	Standard Engine	HP (max)	Optional by TCDS		Approved by STC			STC holder/notes
			Engine	HP (max)	Engine	HP (max)	STC #	
95	O-360-A1A	180						
B95	O-360-A1A	180						
B95A	IO-360-B1A	180						
D95A	IO-360-B1B	180						
E95	IO-360-B1B	180						
95-55	IO-470L	260			470 to 520 cu in	285	SA02262CH	Cygnit Aerospace
95-A55	IO-470L	260			470 to 520 cu in	285	SA02262CH	Cygnit Aerospace
95-B55	IO-470L	260			470 to 520 cu in	285	SA02262CH	Cygnit Aerospace
95.C55	IO-520C	285						
95-D55	IO-520C	285						
E55	IO-520C	285						
56TC	TIO-541-E1B4	380						
A56TC	TIO-541-E1B4	380						
58***	IO-520C	285						***TH-1 through TH-1395 except TH-1389
58****	IO-550C	300						****TH-1389, TH-1396 through TH-2124
G58	IO-550C	300						
58TC°	TSIO-520L	310						°TK-1 through TK-84
58TC°°	TSIO-520WB	325						°°TK-84 and after
58P°°°	TSIO-520L	310						°°°TJ-1 through TJ-168

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58P ^{***}	TSIO-520L	325		^{***} TJ-169 and after
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See TCDS for specific requirements and limitations for TCDS optional engines

See STC and/or STC Pilot's Operating Handbook STC Supplement for requirements and limitations for STC'd engines

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