DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

TYPE CERTIFICATE DATA SHEET A51EU

This data sheet which is part of Type Certificate No. A51EU prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

<u>Type Certificate Holder.</u>	S O C A T A - Groupe AEROSPATIALE Boite Postale 930 65009 - TARBES Cedex France
I. Model TB 20, 4 PCLM (Normal Ca	tegory), approved January 27, 1984.
Engine.	LYCOMING IO-540-C4D5D
Fuel.	100 minimum octane aviation gasoline
Engine Limits.	For all operations, 2575 r.p.m. (250 H.P.)
Propeller & Propeller Limits.	HARTZELL Constant Speed HC-C2YK-1BF/F8477-4 Diameter: not over 80 in., not under 78 in. Pitch setting at 30 in., sta.: Low 15° High 31° Spinner SOCATA TB 10.58.018.100, TB 10.58.018.104 or TB 10.58.026.001 OR HARTZELL Constant Speed HC-C3YR-1RF/F7693F or HC-C3YR-1RF/F7693FB Diameter: not over 78 in., not under 76 in. Pitch setting at 30 in., sta.: Low 13° High 31° Spinner HARTZELL A-2295-3(P) WOODWARD hydraulic governor: -E210681 for aircraft from S/N 1 to 730 -M210681 for aircraft from S/N 1 to 878 (except S/N 823 to 849 and 888). -C210761 or F210 761 for aircraft from S/N 1

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Airspeed Limits (I.A.S.)	<u>Normal Category.</u> a) Aircraft up to S/N 587 where modification N ^O 50 has not been applied. Maximum take-off and landing weight: 2943 lbs.				
	Never exceed Maximum structural cruising Maneuvering Flaps extended Gear extended	189 knots - 217 m.p.h. 151 knots - 174 m.p.h. 127 knots - 146 m.p.h. 100 knots - 115 m.p.h. 140 knots - 162 m.p.h.			
	 b) Aircraft from S/N 588 up to S/N 878 except S/N 823 to 849 and those where modification N^o 50 has been applied. Maximum take-off weight: 3086 lbs; Maximum landing weight: 2943 lbs. 				
	Never exceed Maximum structural cruising Maneuvering Flaps extended Gear extended Gear operating c) Aircraft from S/N 879 and S/N 87	187 knots - 216 m.p.h. 150 knots - 173 m.p.h. 129 knots - 149 m.p.h. 103 knots - 119 m.p.h. 139 knots - 160 m.p.h. 129 knots - 149 m.p.h.			
	Maximum take-off and landing weig Never exceed Maximum structural cruising Maneuvering Flaps extended take-off position Flaps extended landing position Gear extended Gear operating	ght: 3086 lbs 187 knots - 216 m.p.h. 150 knots - 173 m.p.h. 129 knots - 149 m.p.h. 129 knots - 149 m.p.h. 103 knots - 119 m.p.h. 139 knots - 160 m.p.h. 129 knots - 149 m.p.h.			
<u>C.G. Range.</u>	<u>Normal Category.</u> a) Aircraft up to S/N 587 and where Take-off and landing maximum wei (+ 36.9) to (+ 47.4) at 2000 lbs or le	e modification N ⁰ 50 has not been applied. ght: 2943 lbs			
	(+ 37.9) to (+ 47.4) at 2645 lbs (+ 42.6) to (+ 47.4) at 2943 lbs Straight line between points given.				
	 b) Aircraft where modification N^O 50 has been applied for S/N 1 to 587. (+ 36.9) to (+ 47.4) at 2000 lbs or less (+ 37.9) to (+ 47.4) at 2645 lbs (+ 42.6) to (+ 47.4) at 2943 lbs (+ 42.6) to (+ 47.4) at 3086 lbs Straight line between points given. c) Aircraft from S/N 588 included (+ 35.9) to (+ 47.4) at 2205 lbs or less 				
	(+ 37.4) to (+ 47.4) at 2756 lbs (+ 42.2) to (+ 47.4) at 3086 lbs Straight line between points given.				

Empty Weight C.G. Range.

None.

Maximum Weight.	Normal Category
	 a) Aircraft where modification N⁰ 50 has not been applied. - Maximum take-off and landing weight: 2943 lbs
	 b) Aircraft from S/N 588 and those where modification N⁰ 50 has been applied, up to S/N 878, except for S/N 823 to 849. Maximum take-off: 3086 lbs Maximum landing: 2943 lbs
	 c) Aircraft from S/N 879 and S/N 823 to 849. - Maximum take-off weight: 3086 lbs - Maximum landing weight: 3086 lbs
Number of seats.	4 (2 at + 45.5, 2 at + 80.1) - See Note 5 for additional rear seat.
Maximum Baggage.	110 lb at (+ 102) or 143 lb at (+ 102) if modification No. 40 is applied.
Fuel Capacity.	88.8 gal. (two 44.4 gal. at + 42.7: 86.2 gal. usable) See Note 1 for weight and unusable fuel
Oil Capacity.	13.3 qt at (-23.6) (3.9 qt unusable) See Note 1 for weight
Control Surface Movements.	Stabilator (Angles references: upper fuselage spar) Leading edge down: $16^{0} \pm 1^{0}$ Leading edge up: $3^{0} \pm 1^{0}$
	Stabilator tab (Angles reference: stabilator chord) with stabilator leading edge full down.
	a) Aircraft where modification N^0 50 has not been applied.
	Tab trailing edge minimum up $2.5^{\circ} \pm 0.5^{\circ}$ Tab trailing edge maximum up $17.5^{\circ} \pm 1.5^{\circ}$
	b) Aircraft from S/N 588 and those where modification N^0 50 has been applied.
	Tab trailing edge minimum up $0^{O} \pm 0.5^{O}$ Tab trailing edge maximum up $15^{O} \pm 1.5^{O}$
	Ailerons (Reference: wing chord) up $15^{O} \pm 1.5^{O}$ down $15^{O} \pm 1.5^{O}$
	Rudder (Reference: fin chord)Right and left $25^{O} \pm 2^{O}$
	Rudder tab (Reference: rudder chord)Left turn $10^{0} \pm 2^{0}$ Right turn $25^{0} \pm 2^{0}$
	Flaps (Reference: wing chord) $+ 0.5^{\circ}$ Full flaps 40° $- 1^{\circ}$

II. <u>Model TB 10, 4 PCLM (Norm</u> <u>Similar to the TB 20 but with f</u>	<u>al and Utility Category) approved November 27, 1985</u> xed gear.					
Engine.	LYCOMING O-360-A1AD					
Fuel.	100 minimum octane aviation gasoline					
Engine Limits.	For all operations, 2700 r.p.m. (180 HP)					
Propeller & Propeller Limits.	HARTZELL constant speed HC-C2YK-1BF/F-7666 A-2 Diameter: not over 74 in., not under 72 in. Pitch setting at 30 in., sta.: Low 13 ^o 30 High 31 ^o					
	Spinner SOCATA TB 10.58.018.100, TB 10.58.018.104 or TB 10.58.02 HARTZELL Hydraulic governor F4-26 or F4-4A or F4-4AZ or F4-18	26.001				
Airspeed Limits (IAS).	Normal and Utility Category.Never exceed165 knots - 190 m.p.h.Maneuvering122 knots - 142 m.p.h.Flaps extended95 knots - 109 m.p.h.					
<u>C.G. Range.</u>	<u>Normal Category.</u> (+ 37.3) to (+ 47.4) at 2138 lbs or less (+ 39.8) to (+ 47.4) at 2359 lbs (+ 45.0) to (+ 47.4) at 2535 lbs Straight line variation between points given. <u>Utility Category.</u> (+ 37.3) to (+ 47.4) at 2138 lb or less (+ 38.3) to (+ 47.4) at 2249 lb (+ 40.7) to (+ 47.4) at 2359 lb Straight line variation between points given.					
Empty weight C.G. Range.	None					
<u>Maximum Weight.</u>	 <u>Normal Category.</u> a) Aircraft up to S/N 822, except S/N 804, 807, 808, and 816 to 819. - Maximum take-off weight: 2535 lbs - Maximum landing weight : 2407 lbs 					
	 b) Aircraft from S/N 823, and S/N 804, 807, 808 and 816 to 819. - Maximum take-off weight: 2535 lbs - Maximum landing weight : 2535 lbs 					
	<u>Utility Category.</u> Maximum take-off and landing weight: 2359 lbs					
Number of seats.	4 (2 at $+$ 45.9, 2 at $+$ 82.4) See Note 5 for rear seat occupancy.	4 (2 at + 45.9, 2 at + 82.4) See Note 5 for rear seat occupancy.				
<u>Maximum Baggage.</u>	22 lbs at (+ 116.7) and 66 lbs at (+ 99) for aircraft up to S/N 399 and 143 lbs at (+ 102.3) from aircraft S/N 400					
Fuel Capacity.	55.4 gal. (two 27.7 gal. at + 42.3 ; 53.8 gal. usable) See Note 1 for weight and unusable fuel.					
<u>Oil Capacity.</u>	8.45 qt at (-23.8)(-2.64 qt unusable) See Note 1 for weight.					

Control Surface Movements.	Stabilator (Angles reference: upper fuselage spar)					
	Leading edge down Leading edge up	$\begin{array}{c} 17^{0} \pm 1^{0} \\ 2^{0} \pm 1^{0} \end{array}$				
	Stabilator tab (Angles reference: stabilizer chord) with stabilator leading edge full down					
	Tab trailing edge minimum up Tab trailing edge maximum up	$\begin{array}{l} 2.5^{0} \pm 0.5^{0} \\ 17^{0} \pm 1.5^{0} \end{array}$				
Control Surface Movements, Continued	Ailerons (Reference: wing chord) dov	up $15^{\circ} \pm 1.5$ vn $15^{\circ} \pm 1.5^{\circ}$				
	Rudder (Reference: fin chord)Right and left $25^{\circ} \pm 25^{\circ}$	20				
	Flaps (Reference: wing chord) Full flaps 25.5 ⁰	$+0.5^{0}$				
III. <u>Model TB 21, 4 PCLM (Normal</u> Similar to the TB 20 but with a tr	<u>Category) approved March 5, 1986</u> arbocharged engine.					
Engine.	LYCOMING TIO-540-AB1AD					
<u>Fuel.</u> Engine Limits.	100 minimum octane aviation gasolir For all operations, 2575 r.p.m. (250 F	ne HP)				
Propeller and Propeller Limits.	HARTZELL Constant Speed HC-C2YK-1BF/F 8477-4					
	Diameter: not over 80 in., not under 7 Pitch setting at 30 in., sta.: Low 15 High 3	78 in. o 1 ⁰				
	Spinner SOCATA TB 10.58.018.100 or TB 10.58.018.104					
	OR					
	HARTZELL Constant Speed HC-C3YR-1RF/F7693F or HC-C3YI Diameter: not over 78 in., not under 7 Pitch setting at 30 in., sta.: Low 13 ⁶ High 31	R-1RF/F7693FB 76 in. o 0				
	Spinner HARTZELL A-2295-3(P)					
	WOODWARD hydraulic governor: -E210681 or M210681 or C210761 for aircraft from S/N 1 to 730 -C210761 or F210761 for aircraft from S/N 1					
<u>Airspeed Limits (I.A.S.)</u>	Normal Category. a) Aircraft up to S/N 878: Never exceed Maximum structural cruising Maneuvering Flaps extended Gear extended Gear operating	187 knots - 216 m.p.h. 150 knots - 173 m.p.h. 129 knots - 149 m.p.h. 103 knots - 119 m.p.h. 139 knots - 160 m.p.h. 129 knots - 149 m.p.h.				

Airspeed Limits (I.A.S.) Continued	 b) Aircraft from S/N 879: Never exceed Maximum structural cruising Maneuvering Flaps extended take-off position Flaps extended landing position Gear extended Gear operating 	187 knots - 216 m.p.h. 150 knots - 173 m.p.h. 129 knots - 149 m.p.h. 129 knots - 149 m.p.h. 103 knots - 119 m.p.h. 139 knots - 160 m.p.h. 129 knots - 149 m.p.h.
C.G. Range.	Normal Category.	
	(+ 35.9) to (+ 47.4) at 2205 lbs or less (+ 37.4) to (+ 47.4) at 2756 lbs (+ 42.2) to (+ 47.4) at 3086 lbs Straight line between points given.	
Empty weight C.G. Range.	None	
Maximum Weight.	Normal Category	
	a) Aircraft up to S/N 878:Maximum take-off weight: 3086 lbsMaximum landing weight : 2943 lbs	
	b) Aircraft from S/N 879:- Maximum take-off weight: 3086 lbs- Maximum landing weight : 3086 lbs	
Number of Seats.	4(2 at + 45.5, 2 at + 80.1) - See Note 5 for additional end of the second secon	ional rear seat.
Maximum Baggage.	143 lbs at (+ 102)	
Fuel Capacity.	88.8 gal. (two 44.4 gal. at + 42.7; 86.2 gal. usable See Note 1 for weight and unusable fuel	le)
<u>Oil Capacity.</u>	13.3 qt at (-23.6) (3.9 qt unusable) See Note 1 for weight	
Control Surface Movements.	Stabilator (Angles references: upper fuselage spa Leading edge down : Leading edge up :	ar) $16^{0} \pm 1^{0}$ $3^{0} \pm 1^{0}$
	Stabilator tab (Angles reference: stabilator chord	l) with stabilator leading edge full down.
	Tab trailing edge minimum up Tab trailing edge maximum up	$\begin{array}{c} 0^{0} \pm 0.5^{0} \\ 15^{0} \pm 1.5^{0} \end{array}$
	Ailerons (Reference: wing chord) up down	$0.15^{O} \pm 1.5^{O}$ $1.15^{O} \pm 1.5^{O}$
	Rudder (Reference: fin chord) Right and left	$25^{0} \pm 2^{0}$
	Rudder tab (Reference: rudder chord) Left turn Right turn	$\frac{10^{0} \pm 2^{0}}{25^{0} \pm 2^{0}}$
	Flaps (Reference: wing chord) Full flaps	40° + 0.5° -1°

IV. Model TB9, 4 PCLM (Utility Cate Similar to the TB10 but with a 160	egory) approved July 11, 1988 HP engine.					
Engine.	LYCOMING O-320-D2A					
<u>Fuel.</u>	100 minimum octane aviation gasoline					
Engine Limits.	For all operations, 2700 r.p.m. (160 HF	<i>י</i>)				
Propeller & Propeller Limits.	Aircraft up to S/N 878 except S/N 765: SENSENICH fixed pitch 74 DM6 S8 061 Diameter: not over 74 in., not under 72 in. Spinner SOCATA TB 9.58.013.100 or TB 9.58.013.104					
	HARTZELL constant speed HC-C2YL-1BF/F-7663 A-4 Diameter: not over 72 in., not under 7 Pitch setting at 27 in., sta.: L H Spinner SOCATA TB 10 58 018 104	0 in. .ow 11 ⁰ iigh 26 ⁰ 06' or TB 10 58 026 001				
	HARTZELL hydraulic governor F4-2	6 or F4-4A or F4-4AZ or F4-18				
	Aircraft from S/N 879 and S/N 765: SENSENICH fixed pitch 74 DM6 SB 054 Diameter: not over 74 in., not under 72 in. Spinner SOCATA TB9.58.013.100 or TB 9.58.013.104					
	Aircraft from S/N 1851 and from S/N 948 retrofitted with modification no. 139: SENSENICH fixed pitch 74 DM6 S8 058					
	Spinner SOCATA TB9.58.013.100 or TB 9.58.013.104					
Wheel Fairings.	Wheel fairing equipments are mandaton - SENSENICH 74 DM6 S8 061 and - HARTZELL HC-C2YL-1BF/F 7663 - SENSENICH 74 DM6 S8 058	ry with propeller: 8 A-4				
Airspeed Limits (I.A.S.)	Never exceed Maneuvering Flaps extended	165 knots - 190 m.p.h. 122 knots - 142 m.p.h. 95 knots - 109 m.p.h.				
C.G. Range.	<u>Utility Category.</u> (+ 38.3) to (+ 47.4) at 2138 lbs or less (+ 41.3) to (+ 47.4) at 2337 lbs Straight line variation between points given.					
Empty Weight C.G. Range.	None					
<u>Maximum Weight.</u>	Maximum take-off weight : 2337 lbs Maximum landing weight : 2337 lbs					
Number of seats.	4 (2 at + 45.9, 2 at + 82.4) See Note 5 f	or rear seat occupancy				
<u>Maximum Baggage.</u>	88 lbs at (+ 102.3) for aircraft up to S/N 143 lbs at (+ 102.3) from aircraft S/N 4	N 399 and 413 00				

Fuel Capacity.	41.7 gal. (two 20.85 gal. at + 42.3; 40.2 gal. usable)							
	or 55.4 gal. (two 27.7 gal. at + 42.3; 53.8 gal. usable)							
	See Note 1 for weight and unusable	fuel.						
Oil Capacity.	8.45 qt at (-23.8) (2.64 qt unusable) See Note 1 for weight.							
Control Surface Movements.	Stabilator (Angles reference: upper fuselage spar)							
	Leading edge down Leading edge up	170 ± 10 $2^{0} \pm 1^{0}$						
	Stabilator tab (angles reference: stab	Stabilator tab (angles reference: stabilizer chord) with stabilator leading edge full down.						
	Tab trailing edge minimum up Tab trailing edge maximum up	$2.5^{\circ} \pm 0.5^{\circ}$ $17^{\circ} \pm 1.5^{\circ}$						
	Ailerons (Reference: wing chord)							
		up $15^{\circ} \pm 1.5^{\circ}$						
	Rudder (Reference: fin chord)	down $15^{\circ} \pm 1.5^{\circ}$						
	Right and left	$25^{O} \pm 2^{O}$						
	Flaps (Reference: wing chord) - Aircraft up to S/N 878 except S/N 765							
		$+0.5^{O}$						
	Full flaps	320 - 1 ⁰						
	- Aircraft from S/N 879 and S/N 765							
	Full flaps	+0.5 ^o 25.5 ^o						
		-10						
V. Model TB 200, 4 PCLM (Norm	al Category) approved September 14, 19	992. Similar to the TB 20 but with fixed gear.						
Engine.	LYCOMING IO 360 A1B6							
Fuel.	100 minimum octane aviation gasol	ine						
Engine Limits.	For all operations, 2700 r.p.m. (200	Hp)						
Propeller and Propeller Limits.	HARTZELL constant speed							
	HC-C2YK-1BF/F-7666 A-2							
	Diameter: not over 74 in., not under	72 in.						
	Pitch setting at 30 in., sta.: L	ow 13°30 ligh 31°						
	Spinner SOCATA TB 10.58.018.10 WOODWARD governor A210776	0, TB 10.58.018.104 or TB 1058.026.001						
Airspeed Limits (IAS).	Never exceed	165 knots - 190 m.p.h.						
<u>,</u>	Maneuvering	122 knots - 142 m.p.h.						
	Flaps extended	95 knots - 109 m.p.h.						
C.G. Range.	42.6 in to (+47.4) at 2535 lbs							
	39.8 in to (+47.4) at 2359 lbs							
	37.3 in to (+47.4) at 2138 lbs or less	S						

Empty Weight C.G. Range.

None

Maximum Weight	Maximum take-off and landing weight	· 2535 lbs			
Maximum Weight.					
Number of Seats.	4 (2 at +45.9, 2 at 82.4) See Note 5 for rear seat occupancy				
Maximum Baggage.	143 lbs at (+102.3)				
Fuel Capacity.	55.4 gal. (two 27.7 gal. at 42.3 ; 53.8 gal. usable) See Note 1 for weight and unusable fuel.				
Oil Capacity.	8.45 qt at (-23.8) (2.64 qt unusable) See Note 1 for weight				
Control Surface Movements	Stabilator (Angles reference: upper fus Leading edge down Leading edge up	selage spar $17^{0} \pm 1^{0}$ $2^{0} \pm 1^{0}$)		
	Stabilator tab (angles reference: stabili Tab trailing edge minimum up Tab trailing edge maximum up	zer chord) $2.5^{\circ} \pm 0.$ $17^{\circ} \pm 1.$	with stabilator leading edge full down. 5 ⁰ 5 ⁰		
	Ailerons (reference: wing chord)	Up	$15^{\circ} \pm 1.5$		
	Rudder (Reference: fin chord) Right and left	Down $25^{0} \pm 2^{0}$	$15^{\circ} \pm 1.5^{\circ}$		
	Flaps (Reference: wing chord) Full flaps	+ 0. 25.5 ⁰	50		
DATA PERTINENT TO ALL MODE	LS	- 1			
Certification Basis.	Type Certification under 14 CFR Section 21-29 including the following requirements TB 20 - 14 CFR Part 23 effective February 1, 1965, including amendments 23-1 through 23- - 14 CFR Part 36 effective Dec 1, 1969, including amendments 36-1 through 36-11. Effective date of certification basis: November 2, 1975 Date of U.S. application: April 5, 1982 Type Certificate issued on Langary 27, 1984				
TB 10 - 14 CFR Part 23 effective February 1, 1965, including amendments 23-1 thro - 14 CFR Part 36 effective Dec 1, 1969, including amendments 36-1 through 3 Effective date of certification basis: November 2, 1975 Date of U.S. application: May 3, 1979 Type Certificate issued on November 27, 1985. TB 21 - 14 CFR Part 23 effective February 1, 1965, including amendments 23-1 thro - 14 CFR Part 36 effective Dec 1, 1969, including amendments 36-1 through 3 Effective date of certification basis: November 2, 1975 Date of U.S. application: September 30, 1985 Type Certificate issued on March 5, 1986.					
					TB 9 - 14 CFR Part 23 effective February 1, 1965, including amendments 23-1 throug - 14 CFR Part 36 effective Feb 17, 1987, including amendments 36-1 through 36 Effective date of certification basis: November 2, 1975 Date of U.S. application: August 10, 1987 Type Certificate issued on July 11, 1988.

<u>Certification Basis;</u> <u>Continued:</u>	TB 200 - 14 CFR Part 23 effective February 1, 1965, including amendments 23-1 through 23-16. - 14 CFR Part 36 effective Dec 1, 1969, including amendments 36-1 through 36-11. Effective date of certification basis: November 2, 1975 Date of U.S. application: April 15, 1992. Type Certificate issued on September 14, 1992.			
Import Requirements.	An FAA Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by a representative of the French DGAC containing the following statement:			
	"The airplane covered by this certificate has been examined, tested and found to conform to the type design approved under Type Certificate No. A51EU, and to be in condition for safe operation."			
Serial Nos. Eligible.	A certificate of Airworthiness for Export endorsed as noted under "Import Requirements" must be submitted for each individual aircraft for which application for U.S. Certification is made.			
<u>Equipment.</u>	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification. Approved equipment is listed as follows:			
	 TB20: 1) Aircraft up to S/N 947 except S/N 823 to 849 and 888 (14 volt electrical system) SOCATA Equipment List TB 20 BE/EQ N^o 91/81, Issue N^o 6 dated November 85 			
	or later version. 2) Alignetic from to S/N 048 and S/N 922 to 940 plus S/N 988 (28 yealt electrical			
	 Alterat noin to S/N 948 and S/N 825 to 849 plus S/N 888 (28 voit electrical system) SOCATA Equipment List TB 20 NAV N^o 92/89, Issue N^o 1 dated MAY 89 or later version. 			
	TB10:			
	 Aircraft up to S/N 947 (14 volt electrical system) SOCATA Equipment List TB 20 BE/EQ N⁰ 74/79, Issue N⁰ 5 dated November 85 or later version. Aircraft from S/N 948 (28 volt electrical system) SOCATA Equipment List TB 10 NAV N⁰ 232/89, Issue N⁰ 1 dated November 89 or later version. 			
	TB21			
	1) Aircraft from S/N 879 to 947 (14 volt electrical system) SOCATA Equipment List			
	 Aircraft from S/N 948 (28 volt electrical system) SOCATA Equipment List TB 21 NAV N⁰ 124/89, Issue N⁰ 1 dated August 89 or later version. 			
	TB9:			
	 Aircraft up to 947 (14 volt electrical system) SOCATA Equipment List TB 9 NAV N⁰ 102/87 Issue N⁰ 1 dated May 87 or later version 			
	 Aircraft from S/N 948 (28 volt electrical system) SOCATA Equipment List TB 10 NAV N⁰ 232/89, Issue N⁰ 1 dated November 89 or later version. 			
	TB200:			
	$\Omega \cap \Omega \wedge T \wedge T \to T$			

SOCATA Equipment List to TB 200 NAV No. 410/91 or later version.

Equipment. Continued	In addition, the following items of equipment are required
	Model TB 20
	(a) French DGAC approved Airplane Elight Manual or Pilot's Operating Handbook
	(1) Aircraft up to S/N 587 A.F.M. DGAC approved on December 14, 1983;
	edition
	1 of December 1983 to edition 4A of December 1985 or
	(1.1) aircraft up to S/N 587 without kit 9118, P.O.H. DGAC approved on
	February 18, 1991; edition 3 of December 31, 1989 or;
	(1.2) aircraft up to S/N 587 with kit 9118, P.O.H. DGAC approved on
	February 18, 1991; edition 4 of January 31, 1990.
	(2) Aircraft from S/N 588 up to 730 A.F.M. DGAC approved on January 23,
	1986; edition 5 of December 1985 or P.O.H. DGAC approved on February 18,
	1991; edition 4 of January 31, 1990.
	(3) Aircraft from S/N 731 up to S/N 878 (except S/N 823 to 849) P.O.H.
	DGAC approved on April 21, 1987; edition 0 of December 31, 1986 or later approved revisions
	(4) Aircraft from S/N 879 up to S/N 947 (except S/N 888) P Ω H DGAC
	approved on January 31, 1989; edition 1 of January 31, 1988 or later
	approved on sundary 51, 1969, edition 1 of sundary 51, 1966 of fater
	(5) Aircraft S/N 823 to S/N 849 plus S/N 888 and from S/N 948 on:
	(5) Finite at 5/1 (525 to 5/1 (54), pros 5/1 (500, and from 5/1 (540 of)) (51) POH DGAC approved on August 23, 1989: edition 2 of June 30, 1988
	or later approved revisions
	(5.2) "I A F" version - P O H DGAC approved on November 17, 1994:
	edition 2 of September 30, 1994
	(6) Aircraft equipped with SOCATA option OPT10-61-001 must have Pilot's
	Operating Handbook Supplement 45 "Three Bladed Propeller "
	operating mandook Supplement 43, Three Diaded Propenet.
	(b) Stall warning system, SOCATA Reference TB 10-61-017-000.
	Model TB 10
	(a) French DGAC approved Airplane Flight Manual or Pilot's Operating Handbook
	(1) Aircraft up to S/N 730 A F M DGAC approved on November 1985: edition 1
	of January 1985 or A F M DGAC approved on March 1986; edition 2 of
	March 1986 and 3 of May 1986 or P O H DGAC approved on November 4
	1988: edition 0 of January 31, 1988 or later approved on revisions
	(2) Aircraft from S/N 731 up to S/N 822 except S/N 804 \times 807 \times 808 and S/N 816 up
	to 819 A F M DGAC approved on March 1986: edition 4 of December 1986
	or POH DGAC approved on November 4 1988: edition 1 of February 29
	1988 or later approved revisions
	(3) Aircraft from S/N 823 to S/N 947 and S/N 804 \cdot 807 \cdot 808 and S/N 816 up to
	(5) Find at non-S/1 (025 to S/1 (94) and S/1 (004, 007, 000 and S/1 010 up to 819 POH DGAC approved on November 4, 1988; edition 2 of March 31
	1988 or later approved revisions
	(4) Aircraft from S/N 948 P O H DGAC approved on December 13, 1080, edition
	3 of Sentember 30, 1989
	(b) Stall warning system SOCATA Reference TR 10-61-017-000
	(c) Aileron-Rudder controls interconnection option No. 597
	(c) Anteron-Rudder controls interconnection option No. 577
	Model TB 21
	(a) French DGAC approved Airplane Flight Manual or Pilot's Operating Handbook

- French DGAC approved Airplane Flight Manual or Pilot's Operating Handbook
 (1) Aircraft up to S/N 730, A.F.M. DGAC approved on November 1985; editions 1 of April 1985, to edition 3 of June 1986 or P.O.H. DGAC approved on February 18, 1991; edition 3 of December 31, 1989.
 - (2) Aircraft from S/N 731 up to S/N 878, P.O.H. DGAC approved on April 21, 1987; edition 0 of December 31, 1986 or later approved revisions.
 - (3) Aircraft from S/N 879 up to S/N 947, P.O.H. DGAC approved on June 2, 1989; edition 1 of January 31, 1988
 - (4) Aircraft from S/N 948, P.O.H. DGAC approved on November 21, 1989; edition 2 of May 31, 1989 or later approved revisions.

Equipment. Continued	(5) Aircraft equipped with SOCATA option OPT10-61-001 must have Pilot's Operating Handbook Supplement 45, "Three Bladed Propeller."
	(b) Stall warning system, SOCATA Reference TB 10-61-017-000
	 Model TB 9 (a) French DGAC approved Airplane Flight Manual or Pilot's Operating Handbook (1) Aircraft from S/N 731 up to S/N 878, A.F.M. DGAC approved on May 16, 1988; edition 1bis of August 1987 or (except S/N 765) P.O.H. DGAC approved on April 6, 1989; edition 1 of February 29, 1988 or later approved revisions. (2) Aircraft from S/N 879 to 947 and S/N 765, P.O.H. DGAC approved on December 13, 1988; edition 2 of September 30, 1988 (3) Aircraft from S/N 948, P.O.H. DGAC approved on February 02, 1990 edition 3 of September 30, 1989 (4) Aircraft up to S/N 730, P.O.H. DGAC approved on September 5 1989; edition 0 of January 31, 1988, or later approved revisions. (5) Aircraft from S/N 1851 and from S/N 948 retrofitted with modification no. 139, P.O.H. DGAC approved on February 2001; edition 4 of December 31, 1997, revision 1 of October 31, 2000 or later approved revisions.
	(b) Stall warning system, SOCATA Reference TB 10-61-017-000(c) Aileron-Rudder controls interconnection option No. 597
	 <u>Model TB 200</u> (a) French DGAC approved Airplane Flight Manual or Pilot's Operating Handbook. (b) Stall warning system, SOCATA Reference TB 10-61-017-000.
Datum.	Front face of firewall
Leveling Means.	Upper fuselage spar horizontal (Maintenance Manual Subchapter 15 of Chapter II)
Service Information.	Service Bulletins, structural repair manuals, aircraft flight manuals, and specific repair approvals, which contain a statement that the document is DGAC approved, are accepted by the FAA and are considered FAA approved. These approvals pertain to the type design only.
<u>NOTE</u> Note 1	Current weight and balance report including list of equipment included in certificated empty weight and loading instructions when necessary must be provided for each aircraft at the time of original certification.
	<u>Model TB 20</u> The certificated empty weight and corresponding center of gravity location must include unusable fuel of 15.9 lb at $(+42.7)$ and full oil of 24.8 lb at (-23.6) .
	Model TB 10 The certificated empty weight and corresponding center of gravity location must include unusable fuel of 9.5 lb at (+ 42.3) and full oil of 15.8 lbs at (-23.8).
	Model TB 21 The certificated empty weight and corresponding center of gravity location must include unusable fuel of 15.9 lb at (+ 42.7) and full oil of 24.8 lbs at (-23.6).
	<u>Model TB 9</u> The certificated empty weight and corresponding center of gravity location must include unusable fuel of 9.5 lb at (+ 42.3) and full oil of 15.8 lbs at (- 23.8).

Note 1 Continued	Model TB 200 The certificated empty weight and cor unusable fuel of 9.5 lb at (+42.3) and f (-23.8)	responding center of full oil of 15.8 lb at	gravity location must include
<u>Note 2.</u>	Model TB 20 a) The following placard must be dis	splayed in front and in	n clear view of the pilot.
	1) Aircraft up to S/N 587 and w	here modification N ^C	50 has not been applied.
	"This aircraft must be operated as a operating limitations stated in the form	normal category airp of placards, marking	blane in compliance with the s and manual."
	Inverted flight	Prohibited	
	Acrobatic maneuvers	Prohibited	
	Intentional spins	Prohibited	
	Icing Conditions	Prohibited	
	Maximum weight		2943 lbs
	Maneuver speed V_A		127 kt
	Never exceed speed V _{NE}		189 kt
	Flaps extended speed VLE		100 kt
	Landing gear extended maximum spee	d V _{LE}	140 kt
	Landing gear operating maximum spee	ed V _{LO}	130 kt
	Design positive load factor (Maximum)		
	Flaps retracted		+ 3.8
	Flaps extended		+ 2
	 2) Aircraft from S/N 588 up to 878, except S/N 823 to 849, and those where modification N^O 50 has been applied. "This airplane must be operated as a normal category airplane in compliance with the operating limitations stated in the form of placards, markings and flight manual." 		
	Inverted flight		Prohibited
	Acrobatic maneuvers		Prohibited
	Intentional spins		Prohibited
	Icing Conditions		Prohibited
	-		
	Maximum take-off weight		3086 lbs
	Maximum computation weight and lan	ding	2943 lbs
	Maneuver speed V A		129 kt
	Never exceed speed VNE		187 kt
	Flans extended speed VEE		107 kt
	I anding gear extended maximum spee	dVIE	139 kt
	Landing gear operating maximum spee	d VLC	129 kt
	8		
	Design positive load factor (Maximum)	
	Flaps retracted		+ 3.8
	Flaps extended		+ 2
	3) Aircraft from S/N 879		
	"This airplane must be operated as a no	ormal category airplar	e in compliance with the
	operating limitations stated in the form	of placards, marking	s and flight manual."
	Invested Elight		Duchihitad
	Acrobatic Manauvers		Prohibited
	Actobatic Maneuvers		FIOIDILLEU

Note 2. Continued

Intentional Spins	Prohibited
Icing Conditions	Prohibited
Maximum take-off and landing weight	3086 lbs
Maneuver speed VA	129 kt
Never exceed speed V _{NE}	187 kt
Flaps extended maximum speed V _{FE}	
- Flaps "take-off"	129 kt
- Flaps "landing"	103 kt
Landing gear extended maximum speed VFE	139 kt
Landing gear operating maximum speed VFE	129 kt
Design positive load factor (maximum)	
- Flaps retracted	+ 3.8
- Flaps extended	+ 2
 b) The following placard must be displayed on the bagga Maximum weight: 110 lb or if modification No. 40 is ap 	age door: plied
65 Kg = 1.43 lbs maximum	
For loading instructions see	
"Weight and Palance Date" in Flight Manual	
weight and Balance Data in Flight Manual	
c) The following placard must be displayed on the fuel s Left tank 43.1 U.S. gal. usable OFF	elector:
Right tank 43.1 U.S. gal. usable	

d) The following placard must be displayed on each tank:

100/130 octane or AVGAS 100 LL 43.1 U.S. gal.

e) The following placard must be displayed on each rear window: In emergency, kick out here.

Model TB 10

a) The following placard must be displayed in front of and in clear view of the pilot.

1) Aircraft up to S/N 822, except S/N 804, 807, 808, and 816 to 819.

"The airplane must be operated as a normal and utility categories airplane in compliance with the operating limitations stated in the form of placards, markings and manuals."

Inverted flight	Prohibited
Acrobatic maneuvers in normal category	Prohibited
Intentional spins	Prohibited
Icing Conditions	Prohibited
Normal Category	
Maximum take-off weight	2535 lb
Maximum landing weight	2407 lb
Maneuver speed VA	122 kt
Never exceed speed V _{NE}	165 kt
Flap extended speed VFE	95 kt
Design limit load factor	
Flaps retracted	+ 3.8
Flaps extended	+ 2
Utility Category	
Maximum take-off weight	2359 lb

Note 2.	Maximum landing weight	2359 lb
Continued	Maneuver speed VA	122 kt
	Never exceed speed VNE	165 kt
	Flap extended speed VFE	95 kt
	Design limit load factor	
	Flaps retracted	+ 4.4
	Flaps extended	+ 2
		Entry Speed
	Chandelles	135 kt
	Lazy eight	130 kt
	Steep turns	108 kt
	Stalls	
	2) Aircraft from S/N 823 and S/N 804, 807, 808 and	nd 816 to 819.
	"This airplane must be operated as a normal and ut	tility categories airplane in compliance
	with the operating limitations stated in the form of	placards, markings and manuals."
	Inverted flight	Prohibited
	Acrobatic maneuvers in normal category	Prohibited
	Intentional spins	Prohibited
	Icing conditions	Prohibited
	Normal Category	
	Maximum take-off and landing weight	2535 lbs
	Maneuver Speed VA	122 KIAS
	Never exceed speed V _{NE}	165 KIAS
	Flap extended speed VFE	95 KIAS
	Design limit load factor	
	Flans retracted	+ 3.8
	Flaps extended	+ 2
	Thips excilided	12
	Utility Category	
	Maximum take-off weight and landing weight	2359 lbs
	Maneuver speed VA	122 KIAS
	Never exceed speed V _{NE}	165 KIAS
	Flap extended speed VFE	95 KIAS
	Design limit load factor	
	Flaps retracted	+ 4.4
	Flaps extended	+ 2
		Entry Speed
	Chandelles	135 KIAS
	Lazy eight	130 KIAS
	Steep turn	108 KIAS
	Stall	

b) The following placard from the flight manual, (placard 2.12 (3)) must be displayed on the baggage door:

Valid up to S / N 399

◀──	
MAX.	MAX.
30 ^{Kg}	10 ^{Kg}
66 Ibs	22 Ibs

Valid from S / N 400



Note 2 Continued	c) The following placard must be displayed on the fuel set	lector	
Communed	Left tank 26.9 U.S. gal. usable		
	Right tank 26.9 U.S. gal. usable		
	d) The following placard must be displayed on each fuel t	ank	
	100/130 octane AVGAS 100 LL 26.9 U.S. gal.		
	e) The following placard must be displayed on each rear window. In emergency, kick out here.		
	Model TB 21 a) The following placard must be displayed in front and in clear view of the pilot.		
	1) Aircraft up to S/N 878.		
	"This aircraft must be operated as a normal category airplane in compliance with the operating limitations stated in the form of placards, markings and flight manual."		
	Inverted flight	Prohibited	
	Acrobatic maneuvers	Prohibited	
	Intentional spins	Prohibited	
	Icing conditions	Prohibited	
	Maximum take-off weight	3086 lbs	
	Maximum computation weight and landing	2943 lbs	
	Maneuver speed VA	129 kt	
	Never exceed speed V _{NE}	187 kt	
	Flaps extended speed V _{FE}	103 kt	
	Landing gear extended maximum speed V_{LE}	139 kt	
	Landing gear operating maximum speed VLO	129 kt	
	Design positive load factor (Maximum)		
	Flaps retracted	+ 3.8	
	Flaps extended	+ 2	
	2) Aircraft from S/N 879		
	"This airplane must be operated as a normal category ai	rplane in compliance with the	
	operating limitations stated in the form of placards, marking	ngs and flight manual."	
	Inverted flight	Prohibited	
	Acrobatic maneuvers	Prohibited	
	Intentional spins	Prohibited	
	Icing conditions	Prohibited	
	Maximum take-off and landing weight	3086 lbs	
	Maneuver speed VA	129 kt	
	Never exceed speed V _{NE} Flaps extended speed VEE	187 kt	
	- Flans "TAKE-OFF"	129 kt	
	- Flaps "LANDING"	103 kt	
	Landing gear extended maximum speed VI F	139 kt	
	Landing gear operating maximum speed VLO	129 kt	
	Design positive load factor (Maximum)	/ m	

Note 2. Continued	Flaps retracted Flaps extended	+ 3.8 + 2	
	b) The following placard must be	e displayed on the baggage door:	
	65 Kg - 1	43 lb maximum	
	For loading in "Weight and Balance"	nstructions see 2 Data" in Flight Manual	
	c) The following placard must be	e displayed on the fuel selector:	
	Left tank 43.1 U.S. gal.	usable	
	OFF Right tank 43.1 U.S. ga	l. usable	
	d) The following placard must be	e displayed on each tank:	
	100/130 octane AVGA 43.1 U.S. gal.	S 100 LL	
	e) The following placard must be In emergency, kick out	e displayed on each rear window: here.	
	Model TB 9 a) The following placard must be	e displayed in front of and in clear view of the pilot.	
	"This aircraft must be flown in u and Flight Manual."	ility category in accordance with the placards, markings	
	Inverted Flight	Prohibited	
	Acrobatic Maneuvers	Prohibited (except as noted below)	
	Intentional Spins	Prohibited	
	Icing Conditions	Prohibited	
	Maximum Weight	2337 lbs	
	Maneuvering speed VA	122 KIAS	
	Never Exceed VNE	165 KIAS	
	Flap Extended Speed V _{FE}	95 KIAS	
	Elene este de	1.9.4	
	Flags retracted	-1.8 + 10 + 4.4	
	Flaps extended	0 to + 2	
	The following acrobatic maneuvers are permitted in utility category.		
		Entry Speed	
	Chandelles	130 KIAS	
	L azy Fight	124 KIAS	
	Steen Turns	108 KIAS	
	Stalls		
	b) The following placard must be	e displayed on the haggage door.	
	b) The following placate must be	65 Kg = 143 lb maximum	
	ਸ	or loading instructions see	
	"Weight	and Balance Data" in Flight Manual	
	c) The following placard must be Left tank 20.1 U.S. gal	e displayed on the fuel selector usable	
	OFF		

Right tank 20.1 U.S. gal. usable

Note 2. or Left tank 26.9 U.S. gal. usable Continued OFF Right tank 26.9 U.S. gal. usable d) The following placard must be displayed on each fuel tank 100/130 octane AVGAS 100 LL 26.9 U.S. gal. or 100/130 octane AVGAS 100 LL 20.1 U.S. gal. e) The following placard must be displayed on each rear window. In emergency, kick out here. Model TB 200 a) The following placard must be displayed in front of and in clear view of the pilot. "This airplane must be operated as a normal and utility categories airplane in compliance with the operating limitations stated in the form of placards, markings and manuals." Inverted flight Prohibited Acrobatic maneuvers Prohibited Intentional spins Prohibited Icing conditions Prohibited Maximum take-off and landing weight 2535 lb Maneuver speed VA 122 kt Never exceed speed VNE 165 kt Flap extended speed VFE 95 kt Design limit load factor Flap retracted + 3.8 and - 1.5 Flap extended +2 and 0 b) The following placard must be displayed on the baggage door: 65 Kg - 143 lb maximum For loading instructions see "weight and balance Data" in Flight Manual c) The following placard must be displayed on the fuel selector Left tank 26.9 U.S. gal. usable OFF Right tank 26.9 U.S. gal. usable d) The following placard must be displayed on each fuel tank 100/130 octane AVGAS 100 LL 26.9 U.S. gal. e) The following placard must be displayed on each rear window. In emergency, kick out here. Note 3. Service Life Limits Information with respect to service life limited parts is contained in the applicable manufacturer's Maintenance Manual, chapter 4 DGAC approved: TB10: Maintenance Manual TB10 revision 4 dated April 1995 DGAC approved on

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TB10: Maintenance Manual TB10 revision 4 dated April 1995 DGAC ap June 11, 1996, and later approved revisions.

Note 3. Continued	TB9: Maintenance Manual TB9 revision 4 dated April 1995 DGAC approved on June 11, 1996, and later approved revisions.
	TB20: Maintenance Manual TB20 revision 4 dated April 1995 DGAC approved on June 11, 1996, and later approved revisions.
	TB21: Maintenance Manual TB21 revision 4 dated April 1995 DGAC approved on March 4, 1996, and later approved revisions.
	TB200: Maintenance Manual TB21 revision 4 dated April 1995 DGAC approved on June 11, 1996, and later approved revisions.
<u>Note 4.</u>	Information essential for the proper maintenance of the airplane is contained in the SOCATA Maintenance Manual.
<u>Note 5.</u>	 Model TB 20 Rear seat may be fitted out with three seats: a) The rear seat is equipped with three separate safety belts in accordance SOCATA option No. 502 b) Weight and C.G. position are within limits. c) 3 seats at + 80.1
	 Model TB 10 Rear seat may be fitted out with three seats: a) The rear seat is equipped with three separate safety belts in accordance SOCATA option No. 502 b) The total weight on the rear seats is under 454 lbs c) Weight and C.G. position are within limits d) 3 seats at + 80.1
	 Model TB 21 Rear seat may be fitted out with three seats: a) The rear seat is equipped with three safety belts in accordance SOCATA option No. 502 b) Weight and C.G. position are within limits c) 3 seats at + 80.1
	 Model TB 9 Rear seat may be fitted out with three seats: a) The rear seat is equipped with three separate safety belts in accordance SOCATA option No. 502 b) The total weight on the rear seats is under 386 lbs c) Weight and C.G. position are within limits d) 3 seats at + 80.1
	Model TB 200 Rear seat may be fitted out with three seats: a) The rear seat is equipped with three separate safety belts in accordance SOCATA option No. 502 b) The total weight on the rear seats is under 454 lb c) Weight and C.G. position are within limits d) 3 seats at + 80.1
	END