

FEDERAL AVIATION AGENCY

A1WE Revision 2 HAMILTON T-28R-1 T-28R-2  October 1, 1963
---

TYPE CERTIFICATE DATA SHEET NO. A1WE

This data sheet which is a part of type certificate No. A1WE prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Civil Air Regulations.

Type Certificate Holder                      Hamilton Aircraft Company, Inc.  
 6501 South Park Avenue  
 Tucson, Arizona

I - Model Hamilton T28R-2 (Normal Category), approved January 31, 1962 (see NOTE 2 regarding modifications required for conversion from Military T-28-A)

Engine    (1) Wright R-1820-56A, -66, -72A (with 3:2 reduction gear ratio)  
 See NOTE 5

or (2) Wright 704C9GC1 (with 3:2 reduction gear ratio)

Fuel    100/130 minimum grade aviation fuel

Engine limits		HP.	R.P.M.	M.P. In.Hg.	Alt. Ft.
	<u>Engine (1)</u>				
	<u>Low Impeller Ratio</u>				
	Takeoff (five min.)	1350	2700	48.0	S.L.
	Maximum continuous	1200	2500	44.0	S.L.
	Maximum continuous	1200	2500	43.5	2500
	<u>High Impeller Ratio</u>				
	Takeoff (five min.)	1000	2600	44.5	14500
	Maximum continuous	900	2500	42.0	11000
	Maximum continuous	900	2500	40.0	17000

Engine (2)

Low Impeller Ratio

Takeoff (five min.)	1200	2500	45.5	S.L.
Takeoff (five min.)	1200	2500	43.0	4300
Maximum continuous	1000	2300	39.5	S.L.
Maximum continuous	1000	2300	37.2	6900

High Impeller Ratio

Takeoff (five min.)	1000	2500	44.5	14200
Maximum continuous	900	2300	40.0	15200
Maximum continuous	900	2300	42.5	9700

Propeller and propeller limits              Hamilton Standard, constant speed, 33D50 or 43D50 hub with 6601-17S blades

Diameter: Max. 121-7/8", min. allowable for repairs 120" (See NOTE 4)

Pitch setting at 42 in. station:

Engine (1) Low 20.0°, high 57°

Engine (2) Low 20.5°, high 57°

Airspeed limits	Never exceed	307 m.p.h. (266 knots) CAS
	Maximum structural cruising	236 m.p.h. (205 knots) CAS
	Maneuvering	180 m.p.h. (156 knots) CAS
	Flaps extended	160 m.p.h. (139 knots) CAS
	Landing gear extended	160 m.p.h. (139 knots) CAS

C.G. range    (+144.6) to (+150.2)  
 (effect of landing gear extension - 2700 in.-lb.)

Empty weight C.G. range                      None

Page No.	1	2	3
Rev. No.	2	2	2

Maximum weight	Takeoff 7600 lb., Landing 7600 lb.			
No. seats	5(1 at 138.5) (2 at +171.5) (2 at +200.5)			
Baggage	None			
Fuel capacity	170 gal. with 4 cells (two 66 gal. main wing tanks at +114 and two 19 gal. aux. wing tanks at +110) or 125 gal. with 2 cells (two 62.5 gal. main tanks at +164) See NOTE 3			
Oil capacity	10 gal. (+65.2)			
Control surface movements	Wing flaps	Down	36.5°	
	Aileron tab	Up 12.0°	Down	3°
	Aileron	Up 15.5°	Down	10°
	Elevator tab	Up 15.0°	Down	15°
	Elevator	Up 24.0°	Down	16.0°
	Rudder tab	Left 19.0°	Right	11.0°
	Rudder	Left 25.5°	Right	24.5°
	(Allowable limits plus or minus 1/2°)			
Serial Nos. eligible	All UASF serial Nos.			

II - Model Hamilton T28R-1 (Normal Category), approved March 26, 1962 (see NOTE 2 regarding modifications required for conversion from Military T-28-A)

Same as Model T28R-2 except for tandem cockpits, interior arrangement, and flight controls

Engine	(1) Wright 1820-56A, -66, -72A (with 3:2 reduction gear ratio) See NOTE 5			
	(2) Wright 704C9GC1 (with 3:2 reduction gear ratio) Augmenters per Hamilton Dwg. 674-51 optional with 704C9GC1 engine.			
Fuel	100/130 minimum grade aviation fuel			

Engine limits

	HP.	R.P.M.	M.P. In.Hg.	Alt. Ft.
Engine (1)				
<u>Low Impeller Ratio</u>				
Takeoff (five min.)	1350	2700	48.0	S.L.
Takeoff (five min.)	1350	2700	47.0	1300
Maximum continuous	1200	2500	44.0	S.L.
Maximum continuous	1200	2500	43.5	2500
<u>High Impeller Ratio</u>				
Takeoff (five min.)	1000	2600	44.5	14500
Maximum continuous	900	2500	42.0	11000
Maximum continuous	900	2500	40.0	17000
Engine (2)				
<u>Low Impeller Ratio</u>				
Takeoff (five min.)	1200	2500	45.5	S.L.
Takeoff (five min.)	1200	2500	43.0	4300
Maximum continuous	1000	2300	39.5	S.L.
Maximum continuous	1000	2300	37.2	6900
<u>High Impeller Ratio</u>				
Takeoff (five min.)	1000	2500	44.5	14200
Maximum continuous	900	2300	40.0	15200
Maximum continuous	900	2300	42.5	9700

Propeller and propeller limits

Hamilton Standard, constant speed, 33D50 or 43D50 hub with 6601-17S blades  
Diameter: Max. 121-7/8", min. allowable for repairs 120" (See NOTE 4)  
Pitch setting at 42 in. station:  
Engine (1) Low 20.0°, high 57°  
Engine (2) Low 20.5°, high 57°

Airspeed limits

Never exceed 307 m.p.h. (266 knots) CAS  
Maximum structural cruising 236 m.p.h. (205 knots) CAS  
Maneuvering 180 m.p.h. (157 knots) CAS  
Flaps extended 160 m.p.h. (139 knots) CAS  
Landing gear extended 160 m.p.h. (139 knots) CAS

C.G. range

(+144.6) to (+150.2)  
(effect of landing gear extension - 2700 in.-lb.)

Empty weight C.G. range

None

