



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.IM.A.077

for

Piper PA-46

Type Certificate Holder:

Piper Aircraft, Inc.

2926 Piper Drive

Vero Beach, Florida 32960

U.S.A.

For models:

PA-46-310P

PA-46-350P

PA-46-500TP

PA-46-600TP

PA-46-701TP

PA-46R-350T



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Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation	PA-46-310P Malibu)
Engine Manufacturer ¹	Continental Aerospace Technologies, Inc.	Engine Type Designation ¹	TSIO-520-BE()
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 6

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C4487	Hartzell Propeller Inc.	BHC-C2YF-1BF/F8052()	None	1,860	74.8	80.0	-

¹ See Note 1.



Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation)	PA-46-350P Malibu Mirage)
Engine Manufacturer ¹	Lycoming Engines	Engine Type Designation ¹	TIO-540-AE2A
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 10 (10.4a)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C4504	Hartzell Propeller Inc.	HC-I2YR-1BF/F8074()	None	1,950	80.3	88.0	-
C5167	Hartzell Propeller Inc.	HC-I3YR-1E/7890K	None	1,969	83.1	88.0	-
C137	Hartzell Propeller Inc.	HC-I3YR-1E/7890K	None	1,950	83.1	88.0	-

¹ See Note 1.



Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation)	PA-46-350P Malibu Mirage)
Engine Manufacturer ¹	Lycoming Engines	Engine Type Designation ¹	TIO-540-AE2A
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 10 (10.4b)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C9916	Hartzell Propeller Inc.	HC-I3Y1R-1N/N7605()+2	None	1,969	81.0	85.0	-

¹ See Note 1.



Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation)	PA-46-350P Malibu Mirage)
Engine Manufacturer ¹	Lycoming Engines	Engine Type Designation ¹	TIO-540-AE2A
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 6

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight dB(A)		See Note
					Level ¹	Limit	
C4503	Hartzell Propeller Inc.	HC-I2YR-1BF/F8074()	None	1,950	74.1	80.0	-

¹ See Note 1.



Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation)	PA-46-500TP Malibu Meridian
Engine Manufacturer ¹	Pratt & Whitney Canada	Engine Type Designation ¹	PT6A-42A
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 10 (10.4b)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C140	Hartzell Propeller Inc.	HC-E4N-3Q/E8501B-3.5	None	2,310	76.8	85.0	-
C139	Hartzell Propeller Inc.	HC-E4N-3Q/E8501B-3.5	None	2,200	73.7	85.0	-
C4521	Hartzell Propeller Inc.	HC-E4N-3Q/E8501B-3.5	None	1,999	72.0	85.0	-

¹ See Note 1.



Type Certificate Holder¹ **Piper Aircraft, Inc.** Aircraft Type Designation¹ **PA-46-600TP**
 (Commercial Designation **M600)**

Engine Manufacturer¹ **Pratt & Whitney Canada** Engine Type Designation¹ **PT6A-42A**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **Edition 7 / Amendment 11-B** Chapter¹ **10 (10.4b)**

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C13539	Hartzell Propeller Inc.	5D3-N338A1/78D01B	None	2,722	75.8	85.0	-
C13436	Hartzell Propeller Inc.	HC-E4N-3Q/E8501K-3.5	None	2,722	75.8	85.0	-

¹ See Note 1.



Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation	PA-46-701TP M700 Fury)
Engine Manufacturer ¹	Pratt & Whitney Canada	Engine Type Designation ¹	PT6A-52
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Edition 8 / Amendment 13
		Chapter ¹	10 (10.4b)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C15356	Hartzell Propeller Inc.	5D3-N338A1/78D01B	None	2,722	73.2	85.0	-

¹ See Note 1.



Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation)	PA-46R-350T Malibu Matrix
Engine Manufacturer ¹	Lycoming Engines	Engine Type Designation ¹	TIO-540-AE2A
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Chapter ¹ 10 (10.4b)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C9917	Hartzell Propeller Inc.	HC-I3Y1R-1N/N7605()+2	None	1,969	81.0	85.0	-

¹ See Note 1.



Type Certificate Holder ¹	Piper Aircraft, Inc.	Aircraft Type Designation ¹ (Commercial Designation)	PA-46R-350T Malibu Matrix
Engine Manufacturer ¹	Lycoming Engines	Engine Type Designation ¹	TIO-540-AE2A
Noise Certification Basis	ICAO Annex 16, Volume I	Edition / Amendment	Edition 3 / Amendment 7
		Chapter ¹	10 (10.4b)

EASA Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off dB(A)		See Note
					Level ¹	Limit	
C5712	Hartzell Propeller Inc.	HC-I3YR-1E/7890B	None	1,969	81.3	85.0	-
C5711	Hartzell Propeller Inc.	HC-I3YR-1E/7890K	None	1,969	81.3	85.0	-

¹ See Note 1.



CS-36 Amendment level

ICAO, Annex 16, Volume I Amendment level	7	8	9	10	11-B	12	13
Corresponding CS-36 Amendment level	Initial	1	2	3	4	5	6

Note: This table is for information purposes only. It links the applicable noise requirements in Volume I of ICAO Annex 16 to the corresponding Appendices to that Volume, which were listed as acceptable means of compliance in CS-36. With the adoption of Regulation (EU) 2018/1139 (i.e. from Amendment 12 to Volume I of ICAO Annex 16) these Appendices became part of the applicable noise requirements. Their reference was removed in Amendment 6 to CS-36 and this table will not be updated further.

TCDSN EASA.IM.A.077 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.



Change Record

Issue	Date	Changes
Issue 1	22 October 2007	Initial Issue
Issue 2	20 October 2008	Revised
Issue 3	03 March 2011	Added records C5167 and C9916
Issue 4	19 August 2013	Added record C9917.
Issue 5	05 September 2017	Added model PA-46-600TP
Issue 6	27 October 2017	Added record C13539
Issue 7	19 June 2018	Revised
Issue 8	03 January 2024	MTOM of model PA-46-600TP changed to 2.722 kg
Issue 9	10 October 2024	Introduction of model PA-46-701TP
Issue 10	25 November 2024	Engine designation of model PA-46-701TP revised

