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## 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-46R-350T



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

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

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<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup> **Piper Aircraft, Inc.** Aircraft Type Designation<sup>1</sup> **PA-46-350P**  
(Commercial Designation **Malibu Mirage**)

Engine Manufacturer<sup>1</sup> **Lycoming Engines** Engine Type Designation<sup>1</sup> **TIO-540-AE2A**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter<sup>1</sup> **10 (10.4a)**

EASA Record No.	Propeller Manufacturer <sup>1</sup>	Propeller Type Designation <sup>1</sup>	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup>	Maximum Take-Off Mass <sup>1</sup> (kg)	Take-Off dB(A)		See Note
					Level <sup>1</sup>	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	-

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<sup>1</sup> See Note 1.



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

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

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<sup>1</sup> See Note 1.



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

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

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<sup>1</sup> See Note 1.



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

EASA Record No.	Propeller Manufacturer <sup>1</sup>	Propeller Type Designation <sup>1</sup>	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup>	Maximum Take-Off Mass <sup>1</sup> (kg)	Take-Off dB(A)		See Note
					Level <sup>1</sup>	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	-

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<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup> **Piper Aircraft, Inc.** Aircraft Type Designation<sup>1</sup> **PA-46-600TP**  
(Commercial Designation **M600**)

Engine Manufacturer<sup>1</sup> **Pratt & Whitney Canada** Engine Type Designation<sup>1</sup> **PT6A-42A**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **Edition 7 / Amendment 11-B** Chapter<sup>1</sup> **10 (10.4b)**

EASA Record No.	Propeller Manufacturer <sup>1</sup>	Propeller Type Designation <sup>1</sup>	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup>	Maximum Take-Off Mass <sup>1</sup> (kg)	Take-Off dB(A)		See Note
					Level <sup>1</sup>	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	-

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<sup>1</sup> See Note 1.





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

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

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<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup> **Piper Aircraft, Inc.** Aircraft Type Designation<sup>1</sup> **PA-46R-350T**  
(Commercial Designation **Malibu Matrix**)

Engine Manufacturer<sup>1</sup> **Lycoming Engines** Engine Type Designation<sup>1</sup> **TIO-540-AE2A**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **Edition 3 / Amendment 7** Chapter<sup>1</sup> **10 (10.4b)**

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

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<sup>1</sup> 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

### **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**

<b>Issue</b>	<b>Date</b>	<b>Changes</b>
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

