mt-propeller
ENTWICKLUNG GMBH

Airport Straubing-Wallmühle
94348 Atting / Germany
Telefon 49-(0)9429-9409-0
Telefax 49-(0)9429-8432
E-mail: sales@mt-propeller.com

	Service Bulletin **No. 16 R1**	DOA No. EASA.21J.020

For all vibration approved propeller/engine combinations please refer to Service Bulletin No. 1 (latest revision).

Propeller with RPM limitation are shown in the table below. Propeller which are not listed do not have any restricted RPM range.

Aircraft manufacturers will get a vibration approval from MT-Propeller.

Prepared by CVE: Tina Halbritter	October 12, 2021	Checked/Approved by Head of Office of Airworthiness: Martin Albrecht

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Service Bulletin No. 16 R1	List A : List of MT-Propeller Installations for which compliance with JAR-P-60(b), 160(b) 190, 220 or CS-P 510, 530, 550, 560 and JAR 23.907 or CS 23.907 or FAR 23.907 is shown	DOA No. EASA.21J.020

MT-Propeller Type	LBA/EASA Propeller TCDS No.	Aircraft and Design Series	Engine Type	Aircraft TCDS No.	Compliance/ Date	Minimum feathering speed	Limitations for continuous operation (exceeding 5 minutes) for TBO refer to SB1 ( )
MTV -1-A/L160-03	32.130/53	Aerotechnik L 13 SL	Limbach L-2000-EOI	EASA A.046	Aircraft LBA TCDS No. 874		1900 RPM - 2100 RPM above 2900 RPM
MTV -1-A/L160-03	32.130/53	Grob G-109 A	Limbach L-2400-EBI	LBA 817	Aircraft LBA TM 817-30		2200 RPM – 2400 RPM
MTV -1-A/L160-03	32.130/53	RF5 RF 5 (B)	Limbach L-2000-E-Series	LBA 695	Aircraft LBA TCDS No. 695		1900 RPM – 2100 RPM above 2900 RPM
			L-2400 E-Series	LBA 695			2200 RPM – 2400 RPM
			Sauer SS-2100-H- Series				2250 RPM – 2450 RPM
			ST-2500-H-Series				3000 RPM – 3200 RPM
MTV -1-A/L160-03	32.130/53	Scheibe SF 25C	Sauer SS 2100-H1S	EASA A.098	Aircraft LBA TCDS No. 653		2250 RPM – 2450 RPM above 2900 RPM
			L-2400-EBI				2200 RPM – 2400 RPM
MTV -1-A/L160-03	32.130/53	Valentin Taifun 17 E	Limbach L-2000-E Series	LBA 818	Aircraft LBA TCDS No. 818		1900 RPM – 2400 RPM above 2900 RPM
			L-2400-E Series				2200 RPM – 2400 RPM
MTV -1-A/L160-03	32.130/53	Hofmann H36 Dimona	Limbach L2000-E-Series	EASA A.065	Service Bulletin E-341 March 03, 1993		1900 RPM – 2100 RPM above 2900 RPM
MTV -1-A/L160-03	32.130/53		L2400-EB1.AC		EASA.A.S.02555 12 Dec. 2007		2200 RPM – 2400 RPM
MTV -1-A/L160-06	32.130/53	Valentin Taifun 17 E	L-2400-EFI	LBA 818	Aircraft LBA TCDS No. 818		between 2200 RPM – 2400 RPM
MTV -1-A/L170-05	32.130/53	Grob G-109 B	Limbach L-2400-DT1	LBA 817	PS0007 March 21.02		2200 RPM – 2400 RPM
MTV -1-A/L170-08	32.130/53	Fournier RF5 RF 5 (B)	Sauer ST-2500-H1S- Series	LBA 695	Aircraft LBA TCDS No. 695		2950 RPM – 3200 RPM

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MT-Propeller Type	LBA/EASA Propeller TCDS No.	Aircraft and Design Series	Engine Type	Aircraft TCDS No.	Compliance/ Date	Minimum feathering speed	Limitations for continuous operation (exceeding 5 minutes) for TBO refer to SB1 ( )
MTV-7-D/170-09	32.130/84	Robin DR 400/125	TCM IO-240-A	DGAC TC No. 45	Aircraft LBA TCDS No. 1001		2600 RPM – 2800 RPM
MTV-7-F/170-09	32.130/84	Cessna 152 F152	Lycoming O-235-L2C O-235-N2C	FAA: 3A19	LBA STC No. 270/0610b April 27,1992		2500 RPM – 2650 RPM
MTV-7-F/170-09	32.130/84	Piper PA-38-112	Lycoming O-235-L2A,L2C	LBA 1058	LBA STC SA0272 April 28, 1992		2500 RPM – 2650 RPM
MTV-10-B/174-08	32.130/77	Robin DR 300/180R, DR 400/180, DR400/180R, DR400/180 S	Lycoming O-360-A3A ---	DGAC TC45	LBA STC No. 0048 Oct. 18, 1996		Avoid manifold pressure above 18” Hg at Prop RPM lower than 2300 RPM
MTV-10-B/174-12	32.130/77	Robin DR 300/180R, DR 400/180, DR 400/180R DR 40/180S	Lycoming O-360-A3A ---	DGAC TC45	LBA STC No. 0691 Oct. 18, 1996		2200 RPM -2400 RPM above MAP= 18” Hg
MTV-10-B/174-12	32.130/77	Robin DR253 DR253 B	Lycoming O-360-A3A	DGAC TC42	LBA STC SA 0760 July 18, 1996		2200 RPM - 2400 RPM above MAP= 18” Hg
MTV-12-B-C/ C183-17e	EASA P.013	Extra 200/300	Lycoming AEIO-360-A1E	EASA A.362	Aircraft LBA TCDS No. 1086		2500 RPM – 2700 RPM
MTV-12-B/183-59	EASA P.013	Piper PA-28-R200	Lycoming IO-360-C1C	FAA: 2A13	LBA STC No. 0401/518 518a Oct. 15, 1996		2050 RPM – 2300 RPM
MTV-12-B/ LD188-119a	EASA P.013	Lake LA-4-200	IO-360-A1B	FAA: 1A13	SA 1230 Nov. 05, 2001		2200 RPM - 2400 RPM

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MT-Propeller Type	LBA/EASA Propeller TCDS No.	Aircraft and Design Series	Engine Type	Aircraft TCDS No.	Compliance/ Date	Minimum feathering speed	Limitations for continuous operation (exceeding 5 minutes) for TBO refer to SB1 ( )
MTV-18-B/180-17	32.130/75	Grumman AA-5B Tiger, AG-5B Tiger	Lycoming IO-360-A4K, -A4J	FAA: A16EA	LBA STC No. 0669 Jan. 29, 1996 FAA-STC: SA01658NY		above 2500 RPM
MTV-18-B/180-17 MTV-18-B/183-17	32.130/75	Piper PA-28-180, PA-28-181	Lycoming O-360-A4A O-360-A4M	FAA: 2A13	LBA STC No. 0230 Nov. 18, 1991 FAA-STC: SA0063LA		None below max. propeller Speed nP=2500 RPM
MTV-22-B/174-08	32.130/82	Robin DR 300/180R DR 400/180R DR 400/180S DR 400/180 DR 253, DR 253 B	Lyc. O-360-A3A Lyc. O-360-A1P	DGAC TC45	LBA TCDS No. 1118 11.03.99		below 2300 RPM above MAP = 18 “Hg
MTV-22-B/174-12				DGAC TC45			2200 RPM – 2400 RPM above MAP = 18” Hg
MTV-27-1-E-C-F-R(G)/ CFRL250-55	EASA P.104 FAA P22BO	Rockwell Commander 690 C	Allied Signal Honeywell TPE-331-10T,-5, -5B, -5U, -10P		i.p.	700 RPM +/- 50 RPM or see original AFM	no continuos static cross and tail wind operation on ground above 450 HP
MTV-27-1-E-C-F-R(G)/ CFR(L)250-103	EASA P.104 FAA P22BO	PA42-1000	Honeywell TPE331-14A(B)	FAA: A23SO	EASA.A.S.02480 20 Dec. 2006	700 RPM +/- 50 RPM or see original AFM	No continous static ground operation above 30% torque with side or tailwind

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MT-Propeller Type	LBA Propeller TCDS No.	Vibrationwise approved Engine Types	Limitations for continuous operation (exceeding 5 minutes) for TBO refer to SB1 ( )
MTV -1-A/( )152-106	32.130/53	JPX 4TX 75/A	2200 RPM – 2400 RPM
MTV -1-A/( )155-07	32.130/53	Lycoming O-235-C, -E, -H series	2050 RPM – 2350 RPM above 2700 RPM
MTV -1-A/( )156-03	32.130/53	Lycoming O-235-C, -E, -H, -L, -M series	2050 RPM – 2350 RPM
MTV -1-A/( )160-03	32.130/53	Lycoming 0-235-L2C -C,-E,-H,-K,-L,-M series	2200 RPM – 2400 RPM
MTV -1-A/( )160-03	32.130/53	Limbach L-2000-E-Series	1900 RPM – 2100 RPM above 2900 RPM
MTV -1-A/( )160-03	32.130/53	Limbach L-2400 E-Series	2200 RPM – 2400 RPM
MTV -1-A/( )160-03	32.130/53	Limbach L-2400 EB, -EF, -EE, -DF-Series Crankshaft Modification Status Feb. 06,2002	2300 RPM – 2500 RPM
MTV -1-A/( )160-03	32.130/53	Sauer SS-2100-H- Series	2250 RPM – 2450 RPM
MTV -1-A/( )160-03	32.130/53	Sauer SS-2100-H1S00000	2250 RPM – 2450 RPM above 2900 RPM
MTV -1-A/( )160-03	32.130/53	Sauer ST-2500-H-Series	3000 RPM – 3200 RPM
MTV -1-A/( )160-06	32.130/53	L-2400-EFI -E series	2200 RPM – 2400 RPM
MTV -1-A/( )160-06	32.130/53	Sauer SS-2700-H1S	2050 RPM – 2350 RPM
MTV -1-A/( )170-05	32.130/53	Limbach L-2400-ET	2200 RPM – 2400 RPM
MTV -1-A/( )170-05	32.130/53	Limbach L-2400-DT1	2200 RPM – 2400 RPM

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MTV -1-A/( )170-08	32.130/53	Sauer ST 2500-H1S	2950-3200 RPM
MTV -1-A/( )170-08	32.130/53	Sauer SS 2700-H1S	2050 RPM - 2350 RPM
MTV-2-B-( )/( )193-02	32.130/55	Lycoming (AE)(I)O-360- series	2300 RPM - 2450 RPM
MTV-6-A-( )/( )157-106	EASA P.094	Wilksch Diesel WAM-120	Below 2000 RPM
MTV-6-F-( )/( )165-03	EASA P.094	Lycoming O-235-series	2300 RPM – 2500 RPM
MTV-6-C-( )/( )170-09	EASA P.094	Lycoming (AE)(I)O-320-series	2450 RPM – 2650 RPM
MTV-6-F-( )/( )170-09	EASA P.094	Lycoming O-235-series	2500 RPM – 2650 RPM
MTV-7-F/( )157-106	32.130/84	Jabiru 3300	2100 RPM and 2400 RPM
MTV-7-F/( )165-03	32.130/84	Lycoming O-235-C, -E, -F, -G, -H, -J, -K, -L, -M series	2300 RPM - 2500 RPM
MTV-7-C/( )165-07b	32.130/84	Lycoming (L)(I)O-320-A, -B, -C, -D, -E series	below 2200 RPM and above 2650 RPM
MTV-7-C/( )170-09	32.130/84	Lycoming O-320-A, -C, -E series	2450 RPM and 2650 RPM
MTV-7-D/( )170-09	32.130/84	TCM IO-240-A, IO-240-B	2600 RPM – 2800 RPM
MTV-7-F/( )170-09	32.130/84	Lycoming O-235- L2A , -L2C, -C, -E, -F, -G, -H, -J, -K, -L, -M O-235-N2C	2500 RPM – 2650 RPM
MTV-7-F/( )170-09	32.130/84	Potez 4E-20A	above 2650 RPM

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MT-Propeller Type	LBA Propeller TCDS No.	Vibrationwise approved Engine Types	Limitations for continuous operation (exceeding 5 minutes) for TBO refer to SB1 ( )
MTV-9-D-( )/( )210-15	32.130/65	TCM IO-520-D, -E, -F, -K, -L series	Maximum allowable Propeller speed is limited to 2700RPM
MTV-9-( )-( )/( )248-63	32.130/65	M-14-P, -PF, -PM, M9F Vedeneyev	Not valid for Serial Numbers Bxxxxx
MTV-9-( )-( )/( )250-29	32.130/65	M-14-P, -PF, -PM Vedeneyev	Not valid for Serial Numbers Bxxxxx
MTV-9-( )-( )/( )260-27	32.130/65	M-14-P, -PF, -PM Vedeneyev	Not valid for Serial Numbers Bxxxxx
MTV-9-K-( )/( )260-29	32.130/65	M-14-PM Vedeneyev	Not valid for Serial Numbers Bxxxxx
MTV-10-B/( )174-08	32.130/77	Lycoming O-360-A3A, -A, –B, -C, -D, -E, -F, -G Series	Avoid manifold pressure above 18” Hg at Prop RPM lower than 2300 RPM
MTV-10-B/( )174-12	32.130/77	Lycoming O-360-A3A -A, -B, -C, -D, -E, -F, -G series	2200 RPM - 2400 RPM and above MAP= 18” Hg
MTV-11-C-( )/( )162-24	EASA P.007	Lycoming (AE)(I)O-320-A 1,2,3 -B 1,2,3 -C 1,2,3 -D 1,2,3 -E 1,2,3 series	Between 2300 RPM & 2500 RPM lower than 23 inch MAP
MTV-11-( )-( )/( )190-17f	EASA P.013	Lycoming (I)O-320- Series	Avoid 2050-2300RPM above 22 inch HG
MTV-11-( )-( )/( )190-32	EASA P.013	Lycoming (AE)(I)O-320-A, -C, -E series	2100-2350 RPM
MTV-12-B-( )/( )168-101	EASA P.013	Lycoming (I)O-360- series without Crankshaft dampers	2250 RPM - 2550 RPM & above 2650 RPM
MTV-12-B-( )/( )175-59	EASA P.013	Lycoming (AE)(I)O-360- series without Crankshaft dampers	2250 RPM - 2450 RPM

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MT-Propeller Type	LBA Propeller TCDS No.	Vibrationwise approved Engine Types	Limitations for continuous operation (exceeding 5 minutes) for TBO refer to SB1 ( )
MTV-12-B-( )/( )175-59d	EASA P.013	Lycoming (AE)(I)O-360- series without crankshaft dampers	2150 RPM - 2350 RPM
MTV-12-B-( )/( )180-59	EASA P.013	Lycoming (AE)(I)O-360- series without crankshaft dampers	2050 RPM – 2300 RPM
MTV-12-B-( )/( )183-17e	EASA P.013	Lycoming AEIO-360-A1E	2500 RPM – 2700 RPM
MTV-12-B-( )/( )183-59	EASA P.013	Lycoming (AE)(I)O-360- series without crankshaft dampers	2050 RPM – 2300 RPM
MTV-12-B-( )/( )188-17	EASA P.013	Lycoming IO-360-A1A, -A1B, -A1C, -A1D, -A2A, -A2B, -A2C, -C1A, -C1B, -C1C, -C1F -D1A, -K2A series AEIO-360-A1A, -A1B, -A1C, -A1D, -A2A, -A2B, -A2C series AIO-360-A1A, -A2A, -A1B, -A2B, -B1B series	Above 2500
MTV-12-D-( )/( )188-59	EASA P.013	Lycoming (AE)(I)O-360- series without crankshaft dampers	2050 RPM – 2300 RPM
MTV-12-B-( )/( )188-119a	EASA P.013	Lycoming IO-360-A1B	2200 RPM - 2400 RPM
MTV-15-B-( )/( )183-50	EASA P.098	Lycoming IO-360- all non dampened Models	Between 2050 RPM & 2250 RPM
MTV-15-D-( )/( )210-58	EASA P.098	TCM (I)O-360- Series, TSIO-360-A, -AB Series	Maximum allowable Propeller speed is limited to 2700RPM
MTV-15-D-( )/( )210-58	EASA P.098	TCM IO-520- Series including Turbonormalizer Models O-520- Series including Turbonormalizer Models TSIO-520- Series	Maximum allowable Propeller speed is limited to 2700RPM

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MTV-17-C/( )162-24	EASA P.008	Lycoming (AE)(I)O-320-A 1,2,3 -B 1,2,3 -C 1,2,3 -D 1,2,3 -E 1,2,3 Series	Between 2300 RPM & 2500 RPM Above 23 inch MAP
MTV-17-( )-( )/( )-190-17f	EASA P.008	Lycoming (I)O-320- Series	Avoid 2050-2300RPM above 22 inch HG
MTV-17-( )-( )/( )190-32	EASA P.008	Lycoming (I)O-320-A, -C, -E series	2100-2350 RPM
MTV-18-B/( )168-101	32.130/75	Lycoming (AE)(I)O-360- series without crankshaft dampers	Between 2250RPM and 2550RPM Above 2650 RPM
MTV-18-B-( )/( )168-101b	32.130/67	Delta Hawk DH180V4	Below 1850 RPM
MTV-18-B/( )175-59d	32.130/75	Lycoming (AE)(I)O-360- series without crankshaft dampers	2150 RPM-2350 RPM
MTV-18-B/( )180-17	32.130/75	Lycoming IO-360-A4K, -A4J, -A4AD, -A4A, -A4G, -A4K-A4M, A5AD	above 2500 RPM
MTV-18-( )/( )180-59	32.130/75	Lycoming (AE)(I)O-360- series without crankshaft dampers	2050 RPM-2300 RPM
MTV-18-B/( )183-17	32.130/75	Lycoming O-360-A4A, -A4M	Above 2500 RPm
MTV-18-( )/( )183-59	32.130/75	Lycoming (AE)(I)O-360- series without crankshaft dampers	2050 RPM-2300 RPM
MTV-20-B-( )/( )183-50	EASA P.098	Lycoming IO-360- all non dampened Models	Between 2050 RPM & 2250 RPM
MTV-20-D-( )/( )210-58	EASA P.098	TCM (I)O-360- Series, TSIO-360-A, -AB Series	Maximum allowable Propeller speed is limited to 2700RPM

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MTV-20-D-( )/( )210-58	EASA P.098	TCM IO-520- Series including Turbonormalizer Models O-520- Series including Turbonormalizer Models TSIO-520- Series	Maximum allowable Propeller speed is limited to 2700RPM
MTV-21-F-( )/( )155-07	32.130/86	Lycoming O-235-H2C, -C, -E, -H	2050-2350 RPM above 2700 RPM
MTV-21-F-( )/( )156-03	32.130/86	Lycoming O-235-C, -E, -H, -K, -L, -M	2050-2350 RPM
MTV-21-A-( )/( )160-03	32.130/86	Sauer SS2100-H series	2250-2450 RPM
MTV-21-A-( )/( )160-03	32.130/86	Sauer ST2500-H1S	3000-3200 RPM
MTV-21-F-( )/( )160-03	32.130/86	Lycoming O-235-C, -E, -H, -K, -L, -M	2050-2350 RPM
MTV-21-A-( )/( )160-06	32.130/86	Sauer SS2700-H1S	2050-2350 RPM
MTV-21-A-( )/( )170-08	32.130/86	Sauer ST2500-H1S	2950-3200 RPM
MTV-21-D-( )/( )175-112	32.130/86	Wilksch Diesel WAM -120	Below 1900 RPM
MTV-22-B-( )/( )174-08	32.130/82	Lycoming O-360-A3A, -A1P -A , -B, -C, -D, -E, -F, -G, -J series	below 2300 RPM above MAP = 18 “Hg
MTV-22-B-( )/( )174-08	32.130/82	Lycoming IO-360-A1A, -A1B, -A1C, -A1D, -A2A, -A2B, -A2C, -C1A, -C1B, -C1C, -C1F, -D1A, -E1A, -F1A, -K2A, series	2200 RPM – 2400 RPM above MAP = 18” Hg
MTV-22-B-( )/( )174-08	32.130/82	Lycoming AEIO-360- A1A, -A1B, -A1C, -A1D, -A1E, -A2A, -A2B, -A2C, B1B, -B1D, -B1F series AIO-360-A1A, -A2A, -A1B, -A2B, -B1B series	2350 RPM – 2600 RPM

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MTV-22-B-( )/( )174-12	32.130/82	Lycoming (I)O-360-A , -B, -C, -D, -E, -F, -G, -J series	2200 RPM – 2400 RPM above MAP = 18" Hg
MTV-27-( )-( )/( )250-103	32.130/102	Honeywell TPE331-14-A/B	No continuous static ground operation above 30% torque with side or tailwind
MTV-27-( )-( )/( )250-55b	32.130/102	Allied Signal Honeywell TPE331-10T,-5, -5A, -5B, -5U, -10P	no continuos static cross and tail wind operation on ground above 450 HP