

TYPE-CERTIFICATE DATA SHEET

NO. EASA.IM.A.266

For Type Mooney Model M20

Type Certificate Holder
Mooney Airplane Company Inc.
165 Al Mooney Drive North
Kerrville, Texas 78028

USA

For variants: M20M

M₂0R



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A. General

Data Sheet No.: EASA.IM.A.266 Issue: 02

1. a) Type: Model M20M

b) Variant: N/A

2. Airworthiness Category: Normal Category

3. Type Certificate Holder: Mooney Airplane Company Inc.

165 Al Mooney Drive North Kerrville, Texas 78028

USA

4. Manufacturer: Mooney Airplane Company Inc.

165 Al Mooney Drive North Kerrville, Texas 78028

USA

5. JAA Certification Application Date: N/A

6. JAA recommendation Date: N/A

7. EASA Type Certification Date: 1 Jul 2009 (for S/N equipped with G1000)

28 June 1989

B. Certification Basis

1. Reference Date for determining

the applicable requirements: FAA application date 6 June 2006

2. (Reserved)

3. (Reserved)

4. Certification Basis: As defined in EASA CRI A-01

5. Airworthiness Requirements: 1. CAR 3 and FAR 23 as defined in FAA TCDS 2A3,

and JAR-23, Change 1, plus Special Conditions as defined in EASA CRI A-01, Issue 4, for the G-1000

Integrated Avionics System.

2. Mooney Airplane Company Drawing 940175

"European Union Aircraft-Retrofit" Revision A of 21

April 2008, or later FAA Approved Revision.

6. Requirements elected to comply: None

7. EASA Special Conditions: As defined in EASA CRI A-01.



B. Certification Basis (continued)

9. EASA Exemptions: None

10. EASA Equivalent Safety Findings: None

11. EASA Environmental Standards: CS 36(ICAO Annex 16, Volume I, as applicable.)

C. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List, Document No.110029,

Applicable revision per Serial Number.

2. Description: Single-engine, all-metal, four-place, low-wing airplane,

retractable tricycle landing gear.

3. Equipment: Equipment list found in AFM/POH No. 350(X)

Applicable revision per Serial Number. See Section 1;

Paragraph D.

4. Dimensions:

 Span
 10.9954 m
 (36 ft. 1 in)

 Length
 8.1534 m
 (26 ft 9 in)

 Height
 2.54 m
 (8 ft. 4 in)

 Wing Area
 16.2487 m²
 (174.9 ft²)

5. Engines: 1. Textron-Lycoming, TIO-540-AF1A

The EASA Engine Type Certification standard includes that of FAA TCDS E14EA ,based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards conforming to TC/TCDS standards certified by individual EU member states prior to 28 September 2003 are also acceptable.

2. Textron-Lycoming, TIO-540-AF1B (OPT. 27-0001 THRU 27-0210) Standard 27-0211 Thru 27-0355.

The EASA Engine Type Certification standard includes that of FAA TCDS E14EA, based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards conforming to TC/TCDS standards certified by individual EU member states prior to 28 September 2003 are also acceptable.

2003 are also acceptable.

5.1 Engine Limits: For Engines 1 and 2: For all operations: 2575

RPM; 38.0 in. MP (270 hp)

For power-plants limits refer to AFM/POH No. 350(X) applicable revision per Serial Number. See

Section 1; Paragraph D.



C. <u>Technical Characteristics and Operational Limitations (continued)</u>

7. Propellers: McCauley constant speed propeller installation

(a) McCauley, B3D32C417 hub blades 82 NRD-7 Weight: 34 kg (75.0 lbs.) at F.S. -1.26 m (-49.5 in.) Pitch setting at 762 mm (30.0 in.) blade station:

Low $15.1^{\circ} \pm 0.2^{\circ}$ High $43.0^{\circ} \pm 0.5^{\circ}$ Diameter: 1.905 m (75.0 in.)

The EASA Propeller Type Certification standard includes that of FAA TCDS P58GL, based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards conforming to TC/TCDS standards certified by individual EU member states prior to 28 September 2003 are also acceptable.

No operating limitations to 2575 RPM No reduction permitted.

- (b) Spinner assembly, McCauley D-6204(c) Spinner assembly, McCauley D-6204-1(d) Propeller governor, McCauley C290D()/T
- (e) Propeller de-icing boots, McCauley 690003-501 (S/N 27-0001 and on) 9 lbs. -49.50
- (f) Propeller governor, McCauley DC 290D(x)/T(x) 3.2 lbs. 35.80

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: Engine MIL-L-22851 or SAE J1899 Aviation Grade

Ashless Dispersant Oil and as approved by Textron Lycoming. Reference Engine Operators Manual.

8.3 Coolant: Not Applicable

9. Fluid capacities:

9.1 Fuel: Total: 359.6 litres (95 US Gallons)

Usable: 336.8 litres (89 US Gallons)

Two 179.8 litre (47.5 gal.) tanks in wings at 1.2544 m

(49.23 inches) aft of datum.

See Note 1 for data on unusable fuel.

9.2 Oil: Total Capacity: 9.5 Litres (10 Quarts)

Minimum: 5.7 Litres (6 Quarts)

10. Air Speeds:



11. Maximum Operating Altitude: 7620 m (25,000 Feet). See Note 4

12. Operational Capability: VFR Day and Night IFR Day and Night

SECTION 1: GENERAL, Model M20M Type Design (continued)

C. Technical Characteristics and Operational Limitations (continued)

13. Maximum Masses:

a. (Normal Category):

S/N 27-0001 thru S/N 27-0052:

Ramp 1452 kg (3200 lb.) Take-Off 1452 kg (3200 lb) Landing 1452 kg (3200 lb)

 $\,$ S/N 27-0053 and on, and those aircraft S/N 27-0001 thru 27-0052 that have complied with Mooney Service Bulletin

M20-248:

Ramp 1528 kg (3368 lb.)
Take-Off 1528 kg (3368 lb)
Landing 1452 kg (3200 lb)

14. Centre of Gravity Range:

(Normal Category):

C.G. Range (1452 kg (3200 lb.) C.G. limits (Landing gear extended) (+1.14 m) to (+1.29 m) [(+45.0 in) to S/N 27-0001 thru 27-0052 (+51.0 in)] At 1451.5 kg (3200 lbs.).

(+1.09 m) to (+1.29 m) [(+43.0 in) to (+51.0 in)]

at 1361 kg (3000 lbs.).

(1.04 m) to (1.29 m) [(+41.0) to (+51.0) at 1102Kg

(2430 lbs.) or less.

(Straight line variation between points

Retraction moment 708.55kg-cm (615 in. -lbs.)

C.G. Range <u>1528 kg (3368 lb.) C.G. limits</u>

(Landing gear extended) (+1.143 m) to (+1.295 m) [(+46.0 in) to (+51.0 in)]

S/N 27-0053 thru 27-0355, at 1528 kg (3368 lbs.).

aircraft S/N 27-0001 (+1.118 m) to (+1.295 m) [(+44.0 in) to (+51.0 in)]

thru 27-0052 that at 1497 kg (3300 lbs.).

have complied with (1.041 m) to (1.295 m) [(+41.0) to (+51.0)] at 1102

Mooney S/B M20-248. kg (2430 lbs.) or less.

(Straight line variation between points given). Retraction moment 708.55kg-cm (615 in. -lbs.)

15. Datum: F.S. 0.00 is 330.2 mm (13 inches) aft of the centerline

of the nose gear support bolts.

16. (Reserved)

17. Levelling Means Levelling screws located above left side tailcone

access door. Spirit level to be placed on screws for

levelling.

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 3

20. (Reserved)



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21. Baggage / Cargo Compartment

54.43 kg (120 lbs) at F.S. +2.58 m (+101.5 in) 4.54 kg (10 lbs) at F.S. +3.2 m (+110 in)

SECTION 1: GENERAL, Model M20M Type Design (continued) C. Technical Characteristics and Operational Limitations (continued)

22. Wheels and Tires

Two Main Wheel/Brake Assemblies, 6.00-6

(a) *Cleveland Wheel Assembly,

Wheel, Model No. 40-86/Brake Assembly No. 30-56A

*Optional - Cleveland, 40-86E, 30-56D
(b) Cleveland wheel assembly, model 40-90A,
Brake Assembly No. 30-652 (27-0117 thru 27-0116)

Two main wheel, 6-ply rating, tires 6.00-6, Type III w/ regular tubes

One, Nose Wheel, 5.00-5

Cleveland, wheel assembly, Model 40-87

One, Nose Wheel, 6-Ply Rating tire (a) 5.00-5, Type III w/ regular tube

23. Control Surface Movements

Wing flaps

	Takeoff Position			Down $10^{\circ} \pm 1^{\circ}$
	Landing Position			Down $33^{\circ} \pm 0^{\circ}$, -2°
Elevator	_	Up	$22^{\circ} + 0^{\circ}, -2^{\circ}$	Down $22^{\circ} + 0^{\circ}, -2^{\circ}$
Ailerons		Up	12.5° to 14.5°	Down $8^{\circ} \pm 1^{\circ}$
Aileron Static Position				Down 0° to 2°
Rudder		Left	23° to 24°	Right 23° to 24°
Stabilizer (L.E.)		Up	3.8° to 4.2°	Down 6.5° to 7.0°

Elevator Trim Assist

With stabilizer set to maximum positive setting and elevators full down, adjust turnbuckle for a 6.35 to 7.26 kg (14.0 to 16.0 lbs) tensionometer reading on cable. Check for positive clearance between cable and pulley sheave.

D. Operating and Service Instructions

Airplane Flight Manual (AFM): 3500: S/N 27-0002 thru 27-0052, latest approved

revision.

3501: S/N 27-0053 thru 27-0107, latest approved

revision.

3502: S/N 27-0108 thru 27-0317, 27-0319 thru 27-

0325, latest approved revision.

3502: S/N 27-0318, 27-0326 thru 27-0355, latest

approved revision. See NOTE 3.

Airplane Maintenance Manual (AMM) (Including Airworthiness Limitations)

Manual No. MAN152, latest revision



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SECTION 1: GENERAL, Model M20M Type Design (continued)

E. Notes

Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airplane for certification.

NOTE 1:

Current weight and balance report, including list of equipment included in certificated empty weight and loading instructions, when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system.) The certificated empty weight and the corresponding center of gravity location must include unusable fuel (not included in fuel capacity) as follows: (+49.23) for the M20M (S/N 27-0001 thru 27-0355), 36 lbs.

NOTE 2:

Required Placards: All placards required to be installed on the aircraft, and their locations, are found in the respective AFM according to aircraft S/N.

NOTE 3:

G-1000 Equipped Aircraft: The G-1000 Integrated Avionics System is installed in S/N 27-0318, 27-326 thru 27-0355. The AFM for these aircraft is 3502, Latest Revision. In addition, a copy of FAA Approved Flight Manual Supplement Garmin G1000 Integrated Avionics System installed in the Mooney M20M, Revision 11-2004 or later FAA Approved Revision, must be on board the aircraft for all flight operations.

NOTE 4:

Operating altitude limitations are established in the applicable Pilot's Operating Handbook and FAA Approved Airplane Flight Manual. The Mooney Oxygen System Installation is an approved oxygen installation on the M20M, per Mooney Drawing 870029-513.



A. General

Data Sheet No.: EASA Issue: 02

1. a) Type: Model M20R

b) Variant: N/A

2. Airworthiness Category: Normal Category

3. Type Certificate Holder: Mooney Airplane Company Inc.

165 Al Mooney Drive North Kerrville, Texas 78028

USA

4. Manufacturer: Mooney Airplane Company Inc.

165 Al Mooney Drive North Kerrville, Texas 78028

USA

5. JAA Certification Application Date: N/A

6. JAA recommendation Date: N/A

7. EASA Type Certification Date: 1 Jul 2009 (for S/N equipped with G1000)

04 October, 1995

B. Certification Basis

1. Reference Date for determining

the applicable requirements: FAA application date 6 June 2006

2. (Reserved)

3. (Reserved)

4. Certification Basis: As defined in EASA CRI A-01

5. Airworthiness Requirements: 1. CAR 3 and FAR 23 as defined in FAA TCDS 2A3,

and JAR-23, Change 1, plus Special Conditions as defined in EASA CRI A-01, Issue 4, for the G-1000

Integrated Avionics System.

2. Mooney Airplane Company Drawing 940175

"European Union Aircraft-Retrofit" Revision A of 21

April 2008, or later FAA Approved Revision.

6. Requirements elected to comply: None

7. EASA Special Conditions: As defined in EASA CRI A-01.



B. Certification Basis (continued)

13. EASA Exemptions: None

14. EASA Equivalent Safety Findings: None

15. EASA Environmental Standards: CS 36(ICAO Annex 16, Volume I, as applicable.)

C. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List, Document No.110071,

Applicable revision per Serial Number.

2. Description: Single-engine, all-metal, four-place, low-wing airplane,

retractable tricycle landing gear.

3. Equipment: Equipment list found in AFM/POH No:

3600 (29-0001 thru 29-0170, 29-0182, 29-0184 thru 29-

0199) Applicable revision per Serial Number. 3800 (29-0183, 29-0200 thru 29-0494) Applicable

revision per Serial Number.

3810 (29-0495 and on) Applicable revision per Serial

Number.

See Section 2; Paragraph D.

4. Dimensions:

 Span
 10.9954 m
 (36 ft. 1 in)

 Length
 8.1534 m
 (26 ft 9 in)

 Height
 2.54 m
 (8 ft. 4 in)

 Wing Area
 16.2487 m²
 (174.9 ft²)

5. Engines: Teledyne Continental Motors, IO-550-G(5); -G(6)*; or -G(7)

*(6) configuration is same as (5) configuration, and may be used, when dry pad adapter is required. The EASA Engine Type Certification standard includes that of FAA TCDS

E3SO, based on individual EU member state

acceptance or certification of this standard prior to 28 September 2003. Other standards conforming to TC/TCDS standards certified by individual EU member

states prior to 28 September 2003 are also acceptable.

5.1 Engine Limits: For all operations: 2500 RPM (280 hp).

For power-plants limits refer to AFM/POH applicable revision per Serial Number. See

Section 2; Paragraph D.



C. Technical Characteristics and Operational Limitations

7. Propellers:

1. McCauley constant speed propeller installation McCauley, 3A32C418-G Hub/Blades ()-82 NRC-9 Pitch setting at 762 mm (30.0 in.) blade station: Low $16.1^{\circ} \pm 0.2^{\circ}$ High $40.0^{\circ} \pm 0.5^{\circ}$ Diameter: 1.85 m (73.0 in.) -½ in. Reduction permitted. The EASA Propeller Type Certification standard includes that of FAA TCDS P47L , based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards conforming to TC/TCDS standards certified by individual EU member states prior to 28 September 2003 are also acceptable.

- (a) Spinner assembly, McCauley D-7192 (painted)
- (b) Spinner assembly, McCauley D-7192-1 (polished)
- (c) Propeller governor, Mooney 660115-511
- (d) Propeller De-Icing Boots, McCauley, 690005-501 (Serial No. 29-0199, excluding 29-0183).
- 2. McCauley constant speed 241 propeller installation (a) McCauley, 2A34C241-G hub, blades 82PGC-6 Pitch setting at 762 mm (30.0 in.) blade station: Low $20.0^{\circ} \pm .5^{\circ}$ High $37.5^{\circ} \pm .5^{\circ}$

Diameter: 1.93 m +0,-12 mm (76.0 in. + 0, -.5) The EASA Propeller Type Certification standard includes that of FAA TCDS P3EA , based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards conforming to TC/TCDS standards certified by individual EU member states prior to 28 September 2003 are also acceptable.

- (b) Spinner assembly, McCauley D-7579-2 (painted)
- (c) Spinner assembly, McCauley D-7579-1 (polished)
- (d) Propeller governor, Mooney 660115-511
- (e) Propeller De-Icing Boots, McCauley, 690005-501 (S/N 29-0001 thru 29-0199, excluding 29-0183) Propeller de-icing boots, McCauley, 690003-501 (S/N 29-0001 thru 29-0199, excluding 29-0183)
- 3. Hartzell constant speed propeller installation
 (a) Hartzell Hub/Blade Model Number
 PHC-J3YF-1RF/F7693DF(B)-2 or
 PHC-J3YF-1RF/F7693DF-2
 Pitch settings at 762 mm (30 in.) blade station:
 Low 16.5° ±0.2° High 38.0° ±1.0°
 Diameter –1.93 m (76.0 in.)
 12 mm (1/2in.) Reduction permitted.
 The EASA Propeller Type Certification standard includes that of FAA TCDS P36EA, based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards conforming to TC/TCDS standards certified
- 2003 are also acceptable.(b) Spinner assy, Hartzell A-2295-10P (polished)
- (c) Propellor governor, McCauley C290D3X/T45
- (d) Propellor governor, McCauley D-20960-1 (Alternate)

by individual EU member states prior to 28 September



D. Technical Characteristics and Operational Limitations

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: Engine MHS-24(), MHS-25() and TCM Approved oils.

8.3 Coolant: Not Applicable

9. Fluid capacities:

9.1 Fuel: Total: 359.6 litres (95 US Gallons)

Usable: 336.8 litres (89 US Gallons)

Two 179.8 litre (47.5 gal.) tanks in wings at 1.2544 m

(49.23 inches) aft of datum.

See Note 1 for data on unusable fuel.

9.2 Oil: Total Capacity: 7.57 Litres (8 Quarts)

Minimum: 5.7 Litres (6 Quarts)

10. Air Speeds:

 $(S/N\ 29\text{-}0001\ thru\ 29\text{-}0494)$

(S/N 29-0495 and on)

11. Maximum Operating Altitude: 6096 m (20,000 Feet). See Note 4

12. Operational Capability: VFR Day and Night IFR Day and Night

13. Maximum Masses:

a. (Normal Category):

Ramp 1528 kg (3368 lb.)
Take-Off 1528 kg (3368 lb.)
Landing 1452 kg (3200 lb.)

14. Centre of Gravity Range:

(Normal Category):

C.G. Range <u>1528 kg (3368 lb.) C.G. limits</u>

(Landing gear extended) (+1.143 m) to (+1.295 m) [(+46.0 in) to (+51.0 in)]

S/N 29-0001 and on at 1528 kg (3368 lbs.).

(+1.118 m) to (+1.295 m) [(+44.0 in) to (+51.0 in)]

at 1497 kg (3300 lbs.).

(1.041 m) to (1.295 m) [(+41.0) to (+51.0)] at 1102

kg (2430 lbs.) or less.



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SECTION 2: GENERAL, Model M20R Type Design (continued)

C. Technical Characteristics and Operational Limitations (continued)

15. Datum: F.S. 0.00 is 330.2 mm (13 inches) aft of the centerline

of the nose gear support bolts.

16. (Reserved)

17. Levelling Means Levelling screws located above left side tailcone

Access door. Spirit level to be placed on screws for

levelling.

24. Minimum Flight Crew: 1 (Pilot)

25. Maximum Passenger Seating Capacity: 3

26. (Reserved)

27. Baggage / Cargo Compartment 54.43 kg (120 lbs) at F.S. +2.58 m (+101.5 in)

4.54 kg (10 lbs) at F.S. +3.2 m (+110 in)

28. Wheels and Tires

Two Main Wheel/Brake Assemblies, 6.00-6

(a) *Cleveland Wheel Assembly,

Wheel, Model No. 40-86 /Brake Assembly No. 30-56A

*Optional - Cleveland, 40-86E, 30-56D (b) Cleveland wheel assembly, model 40-90A, Brake Assembly No. 30-652 (27-0117 thru 27-0116)

Two main wheel, 6-ply rating, tires 6.00-6, Type III w/ regular tubes

One, Nose Wheel, 5.00-5

Cleveland, wheel assembly, Model 40-87

One, Nose Wheel, 6-Ply Rating tire (a) 5.00-5, Type III w/ regular tube

29. Control Surface Movements Wing flaps

	Takeoff Position			Down $10^{\circ} \pm 1^{\circ}$
	Landing Position			Down $33^{\circ} \pm 0^{\circ}$, -2°
Elevator		Up	22° +0°, -2°	Down $22^{\circ} + 0^{\circ}, -2^{\circ}$
Ailerons		Up	12.5° to 14.5°	Down $8^{\circ} \pm 1^{\circ}$
Aileron Static Position				Down 0° to 2°
Rudder		Left	23° to 24°	Right 23° to 24°
Stabilizer (L.E.)		Up	3.8° to 4.2°	Down 6.5° to 7.0°

Elevator Trim Assist

With stabilizer set to maximum positive setting and elevators full down, adjust turnbuckle for a 6.35 to 7.26 kg (14.0 to 16.0 lbs) tensionometer reading on cable [9.07 kg (20 lb) maximum permissible]. Check for positive clearance between cable and pulley sheave.

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SECTION 2: GENERAL, Model M20R Type Design (continued)

D. Operating and Service Instructions

Airplane Flight Manual (AFM): 3600G: S/N 29-0001 thru 29-0182, 29-0184 thru 29-

0199.

3800: S/N 29-0183, 29-0200 thru 0296. 3800A: S/N 29-0297 thru 29-0332.

3800B: S/N 29-0333 thru 29-0494 (Garmin G-1000) See

NOTE 3.

3810: 29-0495 and on (Garmin G-1000 and Improved

Static Port Design) See NOTE 3.

Airplane Maintenance Manual (AMM) (Including Airworthiness Limitations)

Manual No. MAN161, latest revision

E. Notes

Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airplane for certification.

NOTE 1:

Current weight and balance report, including list of equipment included in certificated empty weight and loading instructions, when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system.) The certificated empty weight and the corresponding center of gravity location must include unusable fuel (not included in fuel capacity) as follows: (+49.23) for the M20R (S/N 29-0001 and on) 36 lbs.

NOTE 2:

Required Placards: All placards required to be installed on the aircraft, and their locations, are found in the respective AFM according to aircraft S/N.

NOTE 3:

G-1000 Equipped Aircraft: The G-1000 Integrated Avionics System is installed in S/N 29-0333 and on The AFM for these aircraft is 3800B, Latest Revision and 3810, Latest Revision. In addition, for all manuals except 3810, a copy of FAA Approved Flight Manual Supplement Garmin G1000 Integrated Avionics System installed in the Mooney M20R, Revision 11-2004 or later FAA Approved Revision, must be on board the aircraft for all flight operations.

NOTE 4:

Operating altitude limitations are established in the applicable Pilot's Operating Handbook and FAA Approved Airplane Flight Manual. The Mooney Oxygen System Installation is an approved oxygen installation on the M20R, per Mooney Drawing 870029-513.



SECTION 3: Change Reccord

Issue	Date	Changes	TC Issue No. & Date
Issue 01	01/07/2009	Initial issue M20M and M20R equipped with Garmin G1000 avionics	18/04/2016
Issue 02	06/04/2022	Correction to M20R Engine and Propeller TCDS references	06/04/2022

-END-