

**European Aviation Safety Agency**

**TYPE-CERTIFICATE**

**DATA SHEET**

**Maule M-4**

Type Certificate Holder: Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

Manufacturer: Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

For variants:	M-4/ C/ S/ T	M-6-235	MXT-7-160
	M-4-210/ C	M-7-235	MXT-7-180
	M-4-220 C/ S	M-7-235B	MXT-7-180A
	M-4-180V		
	M-5-180C	MX-7-180/ A/ B/ C	MT-7-235
	M-5-210C	MX-7-235	
	M-5-235C		

- Issue 1: Initial Issue; 14 December 2004
- Issue 2: Approval of EDO 797-2500 amphibious floats on M-7-235B; 17 January 2005
- Issue 3: Approval of Wipline Model 3000 amphibious floats on M-7-235B; 4 July 2005
- Issue 4: Approval of Wipline Model 2350 amphibious floats on MX-7-180C, 08 September 2005
- Issue 5: General Correction and approval of M-4-180V

**Section A: Model Bee Dee M-4**

**A.I. General**

Data Sheet No.: (IM).A.018	Issue: 01	Date: 14 December 2004
1. a) Type b) Variant	M-4 Bee Dee M-4	
2. Airworthiness Category	Normal Category	
3. Type Certificate Holder:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
4. Manufacturer:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
5. LBA Certification Date:	12-Feb-1965	

**A.II Certification Basis**

1. Reference Date for determining the applicable requirements:	01-Nov-1957
2. (reserved)	
3. (reserved)	
4. Certification Basis:	CAR 3
5. Airworthiness Requirements:	CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and 3.705 amended by 3-7
6. Requirements elected to comply:	None
7. EASA Special Conditions:	None
8. EASA Exemptions:	None
9. EASA Equivalent Safety Findings:	None
10. EASA Environmental Standards:	ICAO, Annex 16, Volume 1

## Maule M-4

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### **A.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model M-4
2. Description: single piston engine, four-seats, steel cage construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Continental O-300-A or O-300-B
  - 5.1 Engine Limits For all operations 2700 rpm
6. (reserved)
7. Propellers: McCauley 1A170-DM7460 or McCauley 1C172
8. Fluids:
  - 8.1 Fuel 80/ 87 minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre Usable: 159 Litre
  - 9.2 Oil: engine external oil tank Maximum: 7,5 Litre Minimum: 3.5 Litre
10. Air Speeds:

Design Manoeuvring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	78 KIAS (90 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	126 KIAS (145 mph)
Never Exceed Speed $V_{NE}$ :	156 KIAS (180 mph)
11. Maximum Masses:

Take-off	953 kg (2100 lbs)
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12. Centre of Gravity Range:

Forward limit	from +38 to + 58 cm at 953 kg
	From +28 to +58 cm at 635 kg
13. Datum: Wing leading edge
14. (reserved)
15. Levelling Means: levelling lug and mark on bottom side of right wing root

## Maule M-4

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16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	45 kg

### **A.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-4 dated 3/15/66 or later approved revision
Maintenance Manual (MM)	MM for Model M-4

### **A.V** **Notes**

1. This certification applies to serial numbers M-4 Series under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Variants:  
Model **M-4**, 4 PCLM (Normal Category), FAA Approved February 21, 1963  
Model **M-4C**, 4 PCLM (Normal Category), FAA Approved October 7, 1965, Same as Model M-4 except for modified right fuselage truss, larger rear doors to facilitate cargo loading, and other minor changes.  
Model **M-4S**, 4 PCLM (Normal Category), FAA Approved March 15, 1966, Same as Model M-4 except for minor changes.  
Model **M-4T**, 2 PCLM (Normal Category), FAA Approved March 15, 1966, Same as Model M-4C except no rear seats or rear door and other minor changes.

**Section B: Model M-4-210**

**B.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type
- b) Variant

M-4  
M4-210

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. FAA Certification Date:

7-Oct-1965

**B.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1



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14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	113 kg

### **B.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-4-210 dated 9/12/64 or later approved revision
Maintenance Manual (MM)	MM for Model M-4-210C

### **B.V** **Notes**

1. This certification applies to serial numbers M-4-210 Series under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Variants: Model **M-4-210C**, 4 PCLM (Normal Category), FAA Approved October 7, 1965

**Section C: Model M-4-220**

**C.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type
- b) Variant

M-4  
M4-220

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. LFV Certification Application Date:

9-May-1968

6. FAA Certification Date:

18-Oct-1966

**C.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1



## Maule M-4

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16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	45 kg

### **C.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-4-220 dated 9/28/66 or later approved revision
Maintenance Manual (MM)	MM for Model M-4-220

### **C.V** **Notes**

1. This certification applies to serial numbers M-4-220 Series under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Variants: Model **M-4-220C**, 4 PCLM (Normal Category), FAA Approved October 18, 1966  
Model **M-4-220S**, 4 PCLM (Normal Category), FAA Approved October 18, 1966

**Section D: Model M-4-180V**

**D.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 03 September 2007

1. a) Type
- b) Variant

M-4  
M-4-180V

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. EASA Application Date:

24 Jan 2006

6. FAA Certification Date:

6 Sept 2005

**D.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
CS23.955

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

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### **D.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model M-4-180V
2. Description: single piston engine, two-seats, steel cage construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Lycoming O-360-C1F or O-360-C4F  

Engine Limits	2700 rpm , full throttle continuous
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6. (reserved)
7. Propellers:
  1. Hartzell constant speed HC-C2YR-1BF/F7666A (only on O-360-C1F)  
Avoid continuous operations between 2000 and 2250 rpm
  2. Sensenich fixed pitch 76EM8S5-0-56 or 76EM8S8-0-56  
Diameter not over and under 76 in. No further reduction permitted.  
Static rpm at full throttle: Not over 2500 rpm, not under 2400 rpm  
For O-360-C1F (modified) avoid continuous operation between 2150 rpm and 2350 rpm
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel:

Standard Fuel Tank	Total:	180,2 Litre
	Usable:	162,8 Litre
Optional wing aux Tank:	Total:	113,6 Litre
  - 9.2 Oil: engine external oil tank      Maximum: 9,5 Litre
10. Air Speeds:

Design Manoevring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	83 KIAS (95 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	128 KIAS (147 mph)
Never Exceed Speed $V_{NE}$ :	158 KIAS (182 mph)
11. Maximum Masses:

Take-off	1043 kg (2300 lbs)
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12. Centre of Gravity Range:

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Forward limit	from +40 to + 48 cm at 1043 kg From +28 to +48 cm at 680 kg or less
13. Datum:	Wing leading edge
14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	1
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 91 kg at +137 cm

### **D.IV Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-4-180V dated 9 Jun 2005 or later approved revision
Maintenance Manual (MM)	MM for Model M-4-180V

### **D.V Notes**

1. This certification applies to serial numbers M-4-180V Series under Production Certificate 11S0
2. Additional equipment refer to AFM

**Section E: Model M-5-180C**

**E.I. General**

Data Sheet No.: (IM).A.018	Issue: 01	Date: 14 December 2004
1. a) Type	M-4	
b) Variant	M-5-180C	
2. Airworthiness Category	Normal Category	
3. Type Certificate Holder:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
4. Manufacturer:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
5. DGAC Certification Application Date:	9-May-1980	
6. FAA Certification Date:	19-Apr-1979	

**E.II Certification Basis**

1. (reserved)	
2. (reserved)	
3. Certification Basis:	CAR 3
4. Airworthiness Requirements:	CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and 3.705 amended by 3-7
5. Requirements elected to comply:	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	None
8. EASA Equivalent Safety Findings:	None
9. EASA Environmental Standards:	ICAO, Annex 16, Volume 1

**E.III Technical Characteristics and Operational Limitations**

20. Type Design Definition: Master Drawing List Model M-5-180C
21. Description: single piston engine, four-seats, steel cage construction, high wing with conventional tail and tailwheel
22. Equipment: refer to AFM
23. Dimensions: refer to AFM
24. Engines: Lycoming O-360-C1F
- Engine Limits For all operation 2700 rpm
25. (reserved)
26. Propellers: Hartzell constant speed HC-C2YR-1BF/F7666A  
Avoid continuous operations between 2000 and 2250 rpm
27. Fluids:
- 8.1 Fuel 100/100LL minimum grade aviation gasoline
- 8.2 Oil refer to AFM
28. Fluid capacities
- |           |                          |          |             |
|-----------|--------------------------|----------|-------------|
| 9.1 Fuel: | Standard Fuel Tank       | Total:   | 163 Litre   |
|           |                          | Usable:  | 151,5 Litre |
| 9.2 Oil:  | engine external oil tank | Maximum: | 9,5 Litre   |
29. Air Speeds:
- |  |                    |
|--|--------------------|
| Design Manoeuvring Speed $V_A$ :             | 109 KIAS (125 mph) |
| Flap Extended Speed $V_{FE}$ :               | 78 KIAS (90 mph)   |
| Maximum Structural Cruising Speed $V_{NO}$ : | 126 KIAS (145 mph) |
| Never Exceed Speed $V_{NE}$ :                | 156 KIAS (180 mph) |
30. Maximum Masses:
- |          |                    |
|----------|--------------------|
| Take-off | 1043 kg (2300 lbs) |
|----------|--------------------|
31. Centre of Gravity Range:
- |               |                                      |
|---------------|--------------------------------------|
| Forward limit | from +42 to + 52 cm at 1043 kg       |
|               | From +32 to +52 cm at 726 kg or less |
32. Datum: Wing leading edge
33. (reserved)
34. Levelling Means: levelling lug and mark on bottom side of right wing root

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35. Minimum Flight Crew:	1 (Pilot)
36. Maximum Passenger Seating Capacity:	3
37. (reserved)	
38. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **E.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-5-180C dated 10/20/70 or later approved revision
Maintenance Manual (MM)	MM for Model M-5-180C

### **E.V** **Notes**

3. This certification applies to serial numbers M-5-180C Series under Production Certificate 11S0
4. Additional equipment refer to AFM

**Section F: Model M-5-210C**

**F.I. General**

Data Sheet No.: (IM).A.018	Issue: 01	Date: 14 December 2004
1. a) Type	M-4	
b) Variant	M-5-210C	
2. Airworthiness Category	Normal Category	
3. Type Certificate Holder:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
4. Manufacturer:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
5. LBA Certification Application Date:	28-Jun-1976	
6. FAA Certification Date:	28-Dec-1973	

**F.II Certification Basis**

1. (reserved)	
2. (reserved)	
3. Certification Basis:	CAR 3
4. Airworthiness Requirements:	CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and 3.705 amended by 3-7
5. Requirements elected to comply:	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	None
8. EASA Equivalent Safety Findings:	None
9. EASA Environmental Standards:	ICAO, Annex 16, Volume 1

## Maule M-4

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### **F.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model M-5-210C
2. Description: single piston engine, four-seats, steel cage construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:  
Continental IO-360-D  
Engine Limits For all operation 2800 rpm
6. (reserved)
7. Propellers: Mc Cauley constant speed D2A34C67N/S76C-2  
Diameter 74 in., no further reduction permitted
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank Maximum: 8,3 Litre  
Minimum. 5,8 Litre
10. Air Speeds:
  - Design Manoevring Speed  $V_A$  : 109 KIAS (125 mph)
  - Flap Extended Speed  $V_{FE}$  : 82 KIAS (94 mph)
  - Maximum Structural Cruising Speed  $V_{NO}$  : 126 KIAS (145 mph)
  - Never Exceed Speed  $V_{NE}$  : 156 KIAS (180 mph)
11. Maximum Masses:
  - Take-off 1043 kg (2300 lbs)
12. Centre of Gravity Range:
  - Forward limit from +42 to + 52 cm at 1043 kg  
From +32 to +52 cm at 726 kg or less
13. Datum: Wing leading edge
14. (reserved)
15. Levelling Means: levelling lug and mark on bottom side of

## Maule M-4

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	right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **F.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-5-210C dated 12/28/73 or later approved revision
Maintenance Manual (MM)	MM for Model M-5-210C

### **F.V** **Notes**

1. This certification applies to serial numbers M-5-210C, 6001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM

**Section G: Model M-5-235C**

**G.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type
- b) Variant

M-4  
M-5-235C

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. LFV Certification Application Date:

28-Jun-1976

6. FAA Certification Date:

6-Apr-1976

**G.IICertification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

### G.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-5-235C
2. Description: single piston engine, four-seats, steel cage construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:  
  
Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D  
IO-540-W1A5 or O-540-B4B5  
  
Engine Limits For all operation 2400 rpm (O-540-J/IO-540-W)  
For all operation 2575 rpm (O-540-B)
6. (reserved)
7. Propellers: (see Note)  
  
Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R  
  
Hartzell constant speed HC-C2YR-1BF/F8477D-6  
  
Hartzell constant speed HC-C3YR-1RF/F7693(F)-()  
  
McCauley constant speed B3D32C414-C/G-82NDA-2 o -4  
  
McCauley constant speed B3D37C224-B/G-90RA-9
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank IO-540: Maximum: 7,8 l, Minimum. 5 l  
O-540: Maximum: 11,8 l, Minimum. 8,9 l
10. Air Speeds:  
  
Design Manoeuvring Speed  $V_A$ : 109 KIAS (125 mph)  
Flap Extended Speed  $V_{FE}$ : 82 KIAS (94 mph)  
Maximum Structural Cruising Speed  $V_{NO}$ : 126 KIAS (145 mph)  
Never Exceed Speed  $V_{NE}$ : 156 KIAS (180 mph)
11. Maximum Masses:  
  
Take-off 1043 kg (2300 lbs)
12. Centre of Gravity Range:

## Maule M-4

Forward limit	from +42 to + 52 cm at 1043 kg From +32 to +52 cm at 726 kg or less
13. Datum:	Wing leading edge
14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **G.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-5-235C or later revision as defined Model <b>M-5-235C</b> , s/n 7001C-7026C, 7028C, 7030C-7032C, 7037C, AFM dated 4/6/76, with expanded C.G. limits per Maule SL#36, rev. B dated 11/6/80; s/n 7027C, 7029C, 7033C-7036C, 7038C-7248C, 7250C-7320C, 7322C-7346C, 7348C, 7349C, AFM dated 4/6/76 with rev. B dated 11/6/80; s/n 7350C, 7352C-7355C, 7357C-7362C, 7364C-7367C, AFM dated 4/6/76 with rev. C dated 4/22/81; s/n 7321C, 7347C, 7351C, 7363C, 7369C-7373C, 7375C, 7445C, 7451C, 7460C, 7467C, AFM dated 8/12/81 with rev. A dated 5/1/84. Note: AFMs dated 4/6/76 must have AFM Supplement #13 attached. AFM Dated 1/13/86 for s/n 7470C, 7478C-7480C, 7484C-7487C, 7515C
Maintenance Manual (MM)	MM for Model M-5-235C

### **G.V** **Notes**

1. This certification applies to serial numbers M-5-210C, 6001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Propeller and Propeller limits:  
Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R  
(-3R use with 7:00 tires or larger/26 psi minimum air pressure.)  
Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6  
(Use with O-540-J3A5 or O-540-B4B5 engine only)  
Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-(  
(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)  
Diameter: -3R: Not over 81 in.; not under 77 in.  
-6R: Not over 78 in.; not under 77 in.  
F8477D-6 or F7693(F)-(  
Pitch settings at 30" sta.:  
-3R: low 16.0° +1° high 30.0° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 13.8° +1° high 30.0° +1° (O-540-B4B5 engine)  
-6R: low 16.7° +1° high 30.0° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 14.3° +1° high 30.0° +1° (O-540-B4B5 engine)  
F8477D-6: low 16.7° +1° high 30.0° +1° (O-540-J3A5 engine)  
low 14.3° +1° high 30.0° +1° (O-540-B4B5 engine)  
F7693(F)-(  
low 12.5° +1° high 31.0° +1° (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)  
low 12.5° +1° high 31.0° +1° (O-540-B4B5 engine)  
-6R: Do not exceed 23 in. M.P. below 2050 rpm.  
McCaughey constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4\*  
(-2 use with 7:00 tires or larger)  
McCaughey constant speed 2-blade model B2D37C224-B/G-90RA-9\*\*

## Maule M-4

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(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCaughey spinner assembly D-6240 (use with McCaughey 3-blade propeller only)

McCaughey spinner assembly D-6195 (use with McCaughey 2-blade propeller only)

Governor: Woodward F210681\*\*\* or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCaughey C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or

IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

\* McCaughey B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

\*\* McCaughey B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235 with O-540-B4B5 engines.

\*\*\* For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.

**Section H: Model M-6-235**

**H.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type
- b) Variant

M-4  
M-6-235

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. LBA Certification Application Date:

4-May-1988

6. FAA Certification Date:

25-June-1981

**H.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7, additional FAR 23.955 instead of  
CAR 3.435

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

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### H.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-6-235
2. Description: single piston engine, four-seats (optional five-seats),  
steel cage construction, high wing with conventional tail  
and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:  
  
Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D  
IO-540-W1A5 or O-540-B4B5  
  
Engine Limits For all operation 2400 rpm (O-540-J/ O-540-W)  
For all operation 2575 rpm (O-540-B)
6. (reserved)
7. Propellers: (see Note)  
  
Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R  
  
Hartzell constant speed HC-C2YR-1BF/F8477D-6  
  
Hartzell constant speed HC-C3YR-1RF/F7693(F)-()  
  
McCauley constant speed B3D32C414-C/G-82NDA-2 o -4  
  
McCauley constant speed B3D37C224-B/G-90RA-9
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank IO-540: Maximum: 7,8 l, Minimum. 5 l  
O-540: Maximum: 11,8 l, Minimum. 8,9 l
10. Air Speeds:
  - Design Manoeuvring Speed  $V_A$ : 109 KIAS (125 mph)
  - Flap Extended Speed  $V_{FE}$ : 82 KIAS (94 mph)
  - Maximum Structural Cruising Speed  $V_{NO}$ : 126 KIAS (145 mph)
  - Never Exceed Speed  $V_{NE}$ : 156 KIAS (180 mph)

## Maule M-4

11. Maximum Masses:	
Take-off	1134 kg (2500 lbs)
12. Centre of Gravity Range:	
Forward limit	from +38 to + 52 cm at 1134 kg From +28 to +52 cm at 771 kg or less
13. Datum:	Wing leading edge
14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3 (optional 4)
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### H.IV **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model <b>M-6-235</b> , AFM dated 6/25/81, rev. I dated 6/10/94 for s/n 7249C, 7356C, 7379C-7465C; AFM dated 5/23/85, rev. B dated 6/10/94 for s/n 7466C, 7468C-7473C; AFM dated 2/19/87, rev. C dated 3/3/95 for s/n 7474C and up
Maintenance Manual (MM)	MM for Model M-6-235

### H.V **Notes**

1. This certification applies to serial numbers M-6-235, s/n 7249C, 7356C, 7379C-7444C, 7446C-7450C, 7452C-7459C, 7461C-7466C, 7468C, 7469C, 7471C-7475C, 7488C-7514C, 7516C-7519C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Propeller and Propeller limits:  
Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R  
(-3R use with 7:00 tires or larger/26 psi minimum air pressure.)  
Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6  
(Use with O-540-J3A5 or O-540-B4B5 engine only)  
Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-()  
(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)  
Diameter: -3R: Not over 81 in.; not under 77 in.  
-6R: Not over 78 in.; not under 77 in.  
F8477D-6 or F7693(F)-(): Not over 78 in.; not under 76 in.  
Pitch settings at 30" sta.:  
-3R: low 16° +1° high 30° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 13.8° +1° high 30° +1° (O-540-B4B5 engine)  
-6R: low 16.7° +1° high 30° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 14.3° +1° high 30° +1° (O-540-B4B5 engine)  
F8477D-6: low 16.7° +1° high 30° +1° (O-540-J3A5 engine)  
low 14.3° +1° high 30° +1° (O-540-B4B5 engine)  
F7693(F)-(): low 14.2° +1° high 31° +1° (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)  
low 12.5° +1° high 31° +1° (O-540-B4B5 engine)  
-6R: Do not exceed 23 in. M.P. below 2050 rpm.  
McCaughey constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4\*

## Maule M-4

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(-2 use with 7:00 tires or larger)

McCauley constant speed 2-blade model B2D37C224-B/G-90RA-9\*\*

(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCauley spinner assembly D-6240 (use with McCauley 3-blade propeller only)

McCauley spinner assembly D-6195 (use with McCauley 2-blade propeller only)

Governor: Woodward F210681\*\*\* or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCauley C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or

IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

\* McCauley B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

\*\* McCauley B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235 with O-540-B4B5 engines.

\*\*\* For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.

**Section I: Model M-7-235**

**I.I. General**

Data Sheet No.: (IM).A.018	Issue: 01	Date: 14 December 2004
7. a) Type	M-4	
b) Variant	M-7-235	
8. Airworthiness Category	Normal Category	
9. Type Certificate Holder:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
10. Manufacturer:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
11. LBA Certification Application Date:	4-May-1988	
12. FAA Certification Date:	9-Nov-1983	

**I.II Certification Basis**

1. (reserved)	
2. (reserved)	
3. Certification Basis:	CAR 3
4. Airworthiness Requirements:	CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and 3.705 amended by 3-7, additional FAR 23.955 instead of CAR 3.435
5. Requirements elected to comply:	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	None
8. EASA Equivalent Safety Findings:	None
9. EASA Environmental Standards:	ICAO, Annex 16, Volume 1

## Maule M-4

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### I.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-7-235
2. Description: single piston engine, five-seats, steel cage construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:  
  
Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D  
IO-540-W1A5 or O-540-B4B5  
  
Engine Limits For all operation 2400 rpm (O-540-J/ O-540-W)  
For all operation 2575 rpm (O-540-B)
6. (reserved)
7. Propellers: (see Note)  
  
Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R  
  
Hartzell constant speed HC-C2YR-1BF/F8477D-6  
  
Hartzell constant speed HC-C3YR-1RF/F7693(F)-()  
  
McCauley constant speed B3D32C414-C/G-82NDA-2 o -4  
  
McCauley constant speed B3D37C224-B/G-90RA-9
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank IO-540: Maximum: 7,8 l, Minimum. 5 l  
O-540: Maximum: 11,8 l, Minimum. 8,9 l
10. Air Speeds:  
Design Manoeuvring Speed  $V_A$ : 109 KIAS (125 mph)  
Flap Extended Speed  $V_{FE}$ : 82 KIAS (94 mph)  
Maximum Structural Cruising Speed  $V_{NO}$ : 126 KIAS (145 mph)  
Never Exceed Speed  $V_{NE}$ : 156 KIAS (180 mph)
11. Maximum Masses:

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Take-off	1134 kg (2500 lbs)
12. Centre of Gravity Range:	
Forward limit	from +38 to + 52 cm at 1134 kg From +28 to +52 cm at 771 kg or less
13. Datum:	Wing leading edge
14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	4
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### I.IV **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model <b>M-7-235</b> , AFM dated 11/9/83 or later approved revision
Maintenance Manual (MM)	MM for Model M-7-235

### I.V **Notes**

1. This certification applies to serial numbers M-7-235, s/n 4001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Variants:  
Model **M-7-235B**, 5 PCLM (Normal Category), FAA Approved October 14, 1993
4. Propeller and Propeller limits:  
Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R  
(-3R use with 7:00 tires or larger/26 psi minimum air pressure.)  
Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6  
(Use with O-540-J3A5 or O-540-B4B5 engine only)  
Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-(  
(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)  
Diameter: -3R: Not over 81 in.; not under 77 in.  
-6R: Not over 78 in.; not under 77 in.  
F8477D-6 or F7693(F)-(  
Pitch settings at 30" sta.:  
-3R: low 16.0° +1° high 30.0° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 13.8° +1° high 30.0° +1° (O-540-B4B5 engine)  
-6R: low 16.7° +1° high 30.0° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 14.3° +1° high 30.0° +1° (O-540-B4B5 engine)  
F8477D-6: low 16.7° +1° high 30.0° +1° (O-540-J3A5 engine)  
low 14.3° +1° high 30.0° +1° (O-540-B4B5 engine)  
F7693(F)-(  
low 12.5° +1° high 31.0° +1° (O-540-B4B5 engine)  
-6R: Do not exceed 23 in. M.P. below 2050 rpm.  
McCaughey constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4\*  
(-2 use with 7:00 tires or larger)  
McCaughey constant speed 2-blade model B2D37C224-B/G-90RA-9\*\*

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(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCaughey spinner assembly D-6240 (use with McCaughey 3-blade propeller only)

McCaughey spinner assembly D-6195 (use with McCaughey 2-blade propeller only)

Governor: Woodward F210681\*\*\* or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCaughey C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or

IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

\* McCaughey B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

\*\* McCaughey B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235 with O-540-B4B5 engines.

\*\*\* For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.

**Section J: Model M-7-235B**

**J.I. General**

Data Sheet No.: (IM).A.018	Issue: 03	Date: 4 July 2005
1. a) Type	M-4	
b) Variant	M-7-235B	
2. Airworthiness Category	Normal Category	
3. Type Certificate Holder:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
4. Manufacturer:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
5. ENAC Certification Application Date:	7 August 2003	
6. FAA Certification Date:	14 October 1983	
7. EASA Validation Date:	5 May 2005	

**J.II Certification Basis**

1. (reserved)	
2. (reserved)	
3. Certification Basis:	CAR 3
4. Airworthiness Requirements:	CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and 3.705 amended by 3-7, additional FAR 23.955 instead of CAR 3.435
5. Requirements elected to comply:	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	None
8. EASA Equivalent Safety Findings:	None
9. EASA Environmental Standards:	ICAO, Annex 16, Volume 1, Chapter 10 (EASA CS-36)

**J.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model M-7-235B
2. Description: single piston engine, five-seats, steel cage construction, high wing with conventional tail and tailwheel.  
The model M-7-235B is certified in the "Floatplane" version only
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D, IO-540-W1A5 or O-540-B4B5  
  
Engine Limits For all operation 235 Hp at 2400 rpm (O-540-J/ O-540-W)  
For all operation 235 Hp at 2575 rpm (O-540-B)
6. (reserved)
7. Propellers: Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R  
Hartzell constant speed HC-C2YR-1BF/F8477D-6  
Hartzell constant speed HC-C3YR-1RF/F7693(F)-()  
McCaughey constant speed model B3D32C414-C/G-82NDA-4 or-2  
McCaughey constant speed model B2D37C-224-B/G-90RA-9
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Main Tanks: 162.7 lt (43 US Gal), (151.5 lt (40 US Gal) usable), in two 81.3 lt (21.5 US Gal) wing tanks at +.61 m (+24"), or 180.1 lt (47.6 US Gal), (162.7 lt (43 US Gal) usable), in two 90.0 (23.8US Gal), wing tanks at +.61 m (+24").  
Optional Wing Auxiliary Tanks: 113.5 lt (30 US Gal) (113.5 lt (30 US Gal) usable), in two 45.0 lt (15.0 US Gal) at +.61 m (+24"), or 159.0 (42 US Gal) (159.0 (42 US Gal) usable), in two 79.5 lt (21 US Gal) at +.61 m (+24")  
  
See Note 3 for undrainable fluids
  - 9.2 Oil: Engines IO-540: 7.5 lt (8 qts) at -.86 m (-34"), 4.7 lt (5 qts) minimum  
Engines O-540: 11.3 lt (12 qts) at -.86 m (-34"), 8.5 lt (9 qts) minimum  
  
See Note 3 for undrainable fluids
10. Air Speeds:
  - Design Manoeuvring Speed  $V_A$  : 109 KIAS (125 mph)

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Flap Extended Speed $V_{FE}$ :	82 KIAS (95 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	128 KIAS (147 mph)
Never Exceed Speed $V_{NE}$ :	142 KIAS (164 mph)
11. Maximum Masses	
Take-off	1247 kg (2750 lbs)
12. :Centre of Gravity Range:	<u>Floatplane:</u> EDO 797-2500 amphibious or 248B2440 Floats (+14.0) to (+19.0) at 2750 lbs. (+12.5) to (+19.0) at 2400 lbs. or less Wipline 3000 amphibious Floats (+14.0) to (+19.0) at 2750 lbs. (+12.0) to (+19.0) at 2100 lbs. or less
13. Datum:	Wing leading edge
14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	4
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **J.IV Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model M-7-235B dated 14 October 1993, Rev. E dated 24 May 2002 or later approved revision including AFM-S No 2 (EDO model 797-2550 Amphibious Floats installation in accordance with Maule drawing 9139A) dated 28 September 1995, Rev. A dated 19 August 2002 or later approved revision including AFM-S No 9 (Wipline model 3000 Amphibious Floats installation in accordance with Maule drawing 9188A) dated 17 May 1999, Rev. A dated 19 August 2002 or later approved revision
Maintenance Manual (MM)	MM for Model M-7-235B

### **J.V Notes**

1. This certification applies to serial numbers M-7-235B, 23001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Certified empty weight and corresponding center of gravity location must include undrainable fluids:

fuel	8.16 Kg (18 lbs) (at +.60 m (+24"))
oil	2.72 Kg (6 lbs) (at -.86 m (-34"))
4. Float installation requires the installation of wing tip mounted anti-collision light system in accordance with Maule Drawing 7045F for night flight.

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5. Float installation requires structural modifications to be incorporated in accordance with Maule Drawing 9001F, Sheet 1.

6. For Placards see Airplane Flight Manual and Airplane Flight Manual Supplement no 2 or 9.

7. Propeller and Propeller limits:

Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R

(-3R use with 7:00 tires or larger/26 psi minimum air pressure.)

Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6

(Use with O-540-J3A5 or O-540-B4B5 engine only)

Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-( )

(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)

Diameter: -3R: Not over 81 in.; not under 77 in.

-6R: Not over 78 in.; not under 77 in.

F8477D-6 or F7693(F)-( ): Not over 78 in.; not under 76 in.

Pitch settings at 30° sta.:

-3R: low 16° +1° high 30° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.8° +1° high 30° +1° (O-540-B4B5 engine)

-6R: low 16.7° +1° high 30° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F8477D-6: low 16.7° +1° high 30° +1° (O-540-J3A5 engine)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F7693(F)-( ): low 14.2° +1° high 31° +1° (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)

low 12.5° +1° high 31° +1° (O-540-B4B5 engine)

-6R: Do not exceed 23 in. M.P. below 2050 rpm.

McCaughey constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4\*

(-2 use with 7:00 tires or larger)

McCaughey constant speed 2-blade model B2D37C224-B/G-90RA-9\*\*

(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30° sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCaughey spinner assembly D-6240 (use with McCaughey 3-blade propeller only)

McCaughey spinner assembly D-6195 (use with McCaughey 2-blade propeller only)

Governor: Woodward F210681\*\*\* or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCaughey C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

\* McCaughey B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

\*\* McCaughey B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235 with O-540-B4B5 engines.

\*\*\* For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.

**Section K: Model MT-7-235**

**K.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type  
b) Variant

M-4  
MT-7-235

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. FAA Certification Date:

20-Mar-1992

**K.II Certification Basis**

10. (reserved)

11. (reserved)

12. Certification Basis:

CAR 3

13. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7

14. Requirements elected to comply:

None

15. EASA Special Conditions:

None

16. EASA Exemptions:

None

17. EASA Equivalent Safety Findings:

None

18. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

### **K.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model MT-7-235
2. Description: single piston engine, five-seats, steel cage construction, high wing with conventional tail and wheel configuration
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:  
Lycoming IO-540-W1A5D, IO-540-W1A5  
  
Engine Limits 2400 rpm, full throttle continuous
6. (reserved)
7. Propellers:  
Hartzell constant speed model HC-C2YR-1BF/8468A-6R or -3R  
Diameter: -3R: Not over 81 in.; not under 77 in.  
-6R: Not over 78 in.; not under 77 in.  
Pitch settings at 30" sta.: -3R: low 16° +1° high 30° +1°  
-6R: low 16.7° +1° high 30° +1°  
-6R: Do not exceed 23 in. M.P. below 2050 rpm.  
McCaughey constant speed model B3D32C414-C/G-82NDA-4 o -2  
McCaughey constant speed model B2D37C-224-B/G-90RA-9  
Pitch settings at 30" sta:  
-2 (80"): low 15.0° +0.2° high 30.0° +0.5°  
-4 (78"): low 15.7° +0.2° high 30.0° +0.5°  
-9 (81"): low 14.7° +0.2° high 24.6° +0.5°  
Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell 2 blade propeller only)  
McCaughey spinner assembly D-6240 (use with McCaughey 3 blade propeller only)  
McCaughey spinner assembly D-6195 (use with McCaughey 2 blade propeller only)  
Governor: Woodward F210681 or B210761  
McCaughey C290D3(X)/T30 or DC290D1(X)/T14
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel:

Standard Fuel Tank	Total:	163 Litre
	Usable:	151,5 Litre
Optional	Total:	180 Litre
	Usable:	163 Litre
  - 9.2 Oil: engine external oil tank

Maximum:	7,8 Litre
Minimum.	5 Litre
10. Air Speeds:

## Maule M-4

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Design Manoevring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	82 KIAS (94 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	126 KIAS (145 mph)
Never Exceed Speed $V_{NE}$ :	156 KIAS (180 mph)

### 11. Maximum Masses:

Take-off 1134 kg (2500 lbs)

### 12. Centre of Gravity Range:

Forward limit from +38 to + 50,8 cm at 1134 kg  
From +30,5 to +50,8 cm at 816 kg or less

### 13. Datum:

Wing leading edge

### 14. (reserved)

### 15. Levelling Means:

levelling lug and mark on bottom side of  
right wing root

### 16. Minimum Flight Crew:

1 (Pilot)

### 17. Maximum Passenger Seating Capacity:

4

### 18. (reserved)

### 19. Baggage / Cargo Compartments

Max. Allowable Load 77 kg at +50,8, 158 kg at +107, 113 kg at +178

## **K.IV Operating and Service Instructions**

Airplane Flight Manual (AFM) Model MT-7-235 dated 3/20/92 or later approved revision

Maintenance Manual (MM) MM for Model MT-7-235

## **K.V Notes**

8. This certification applies to serial numbers MT-7-235, 18001C and up, under Production Certificate 11S0

9. Additional equipment refer to AFM

**Section L: Model MX-7-180**

**L.I. General**

Data Sheet No.: (IM).A.018	Issue: 01	Date: 14 December 2004
1. a) Type	M-4	
b) Variant	MX-7-180	
2. Airworthiness Category	Normal Category	
3. Type Certificate Holder:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
4. Manufacturer:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
5. LBA Certification Application Date:	04-May-1988	
6. FAA Certification Date:	18-Dec-1984	

**L.II Certification Basis**

1. (reserved)	
2. (reserved)	
3. Certification Basis:	CAR 3
4. Airworthiness Requirements:	CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and 3.705 amended by 3-7, FAR 23.955 instead of CAR 3.435, FAR 1545 instead of CAR 3.757
5. Requirements elected to comply:	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	None
8. EASA Equivalent Safety Findings:	None
9. EASA Environmental Standards:	ICAO, Annex 16, Volume 1

## Maule M-4

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### L.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model MX-7-180
2. Description: single piston engine, four-seats (optional five), steel cage construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:  
Lycoming O-360-C1F  
Engine Limits For all operation 2700 rpm
6. (reserved)
7. Propellers: Hartzell constant speed HC-C2YR-1BF/F7666A  
Avoid continuous operations between 2000 and 2250 rpm
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank Maximum: 7,8 Litre
10. Air Speeds:

Design Manoeuvring Speed $V_A$ :	112 KIAS (129 mph)
Flap Extended Speed $V_{FE}$ :	85 KIAS (98 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	129 KIAS (149 mph)
Never Exceed Speed $V_{NE}$ :	161 KIAS (185 mph)
11. Maximum Masses:

Take-off	1134 kg (2500 lbs)
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12. Centre of Gravity Range:

Forward limit	from +42 to + 52 cm at 1043 kg
	From +34,5 to +52 cm at 726 kg or less
13. Datum: Wing leading edge
14. (reserved)
15. Levelling Means: levelling lug and mark on bottom side of right wing root

## Maule M-4

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- |   |  |
|---|--|
| 16. Minimum Flight Crew:                | 1 (Pilot)                                      |
| 17. Maximum Passenger Seating Capacity: | 3 (optional 4)                                 |
| 18. (reserved)                          |  |
| 19. Baggage / Cargo Compartments        |  |
| Max. Allowable Load                     | 77 kg at +50,8, 158 kg at +107, 113 kg at +178 |

### **L.IV** **Operating and Service Instructions**

- |                              |  |
|------------------------------|--|
| Airplane Flight Manual (AFM) | Model MX-7-180 dated 12/18/84 or later approved revision |
| Maintenance Manual (MM)      | MM for Model MX-7-180                                    |

### **L.V** **Notes**

1. This certification applies to serial numbers MX-7-180, S7N 11001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM

## Maule M-4

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### **M: Model MX-7-180A**

#### **M.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type  
b) Variant

M-4  
MX-7-180A

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. LBA Certification Application Date:

01-June-2003

6. FAA Certification Date:

3-June-1993

#### **M.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7, FAR 23.955 instead of CAR 3.435

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

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### **M.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model MX-7-180A
2. Description: single piston engine, four-seats, steel cage  
construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Lycoming O-360-C1F or O-360-C4F  
Engine Limits 2700 rpm, full throttle continuous
6. (reserved)
7. Propellers: Sensenich fixed pitch 76EM8S5-0-56 or 76EM8S8-0-56  
Not over 2500 rpm, not under 2400 rpm full trottle
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank Maximum: 7,8 Litre
10. Air Speeds:

Design Manoevring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	85 KIAS (98 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	129 KIAS (149 mph)
Never Exceed Speed $V_{NE}$ :	161 KIAS (185 mph)
11. Maximum Masses:

Take-off	1089 kg (2400 lbs)
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12. Centre of Gravity Range:

Forward limit	from +40,5 to + 52 cm at 1089 kg From +31,5 to +52 cm at 789 kg or less
---------------	--
13. Datum: Wing leading edge
14. (reserved)
15. Levelling Means: levelling lug and mark on bottom side of  
right wing root

## Maule M-4

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16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **M.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model MX-7-180A dated 6/3/93 or later approved revision
Maintenance Manual (MM)	MM for Model MX-7-180A

### **M.V** **Notes**

1. This certification applies to serial numbers MX-7-180A, S7N 20001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM

## Maule M-4

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### **N: Model MX-7-180B**

#### **N.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type  
b) Variant
2. Airworthiness Category
3. Type Certificate Holder:
4. Manufacturer:
5. EASA Certification Application Date:
6. FAA Certification Date:
7. EASA Certification Date:

M-4  
MX-7-180B

Normal Category

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

23-Sep-2004

12-Jul-1993

14 December 2004

#### **N.II Certification Basis**

1. (reserved)
2. (reserved)
3. Certification Basis:
4. Airworthiness Requirements:
5. Requirements elected to comply:
6. EASA Special Conditions:
7. EASA Exemptions:
8. EASA Equivalent Safety Findings:
9. EASA Environmental Standards:

CAR 3

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7, FAR 23.955 instead of CAR 3.435

None

None

None

None

ICAO, Annex 16, Volume 1

## Maule M-4

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### **N.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model MX-7-180B
2. Description: single piston engine, four-seats (optional five), steel cage construction, high wing with conventional tail and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Lycoming O-360-C1F  
Engine Limits 2700 rpm, full throttle continuous
6. (reserved)
7. Propellers: Hartzell constant speed HC-C2YR-1BF/F7666A  
Avoid continuous operations between 2000 and 2250 rpm
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank Maximum: 7,8 Litre
10. Air Speeds:

Design Manoevring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	85 KIAS (98 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	129 KIAS (149 mph)
Never Exceed Speed $V_{NE}$ :	161 KIAS (185 mph)
11. Maximum Masses:

Take-off	1134 kg (2500 lbs)
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12. Centre of Gravity Range:

Forward limit	from +40,5 to + 52 cm at 1134 kg From +31,5 to +52 cm at 789 kg or less
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13. Datum: Wing leading edge
14. (reserved)

## Maule M-4

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15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3 (optional 4)
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **N.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model MX-7-180B dated 7/12/93 or later approved revision
Maintenance Manual (MM)	MM for Model MX-7-180B

### **N.V** **Notes**

1. This certification applies to serial numbers MX-7-180B, S7N 22001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM

**Section O: Model MX-7-180C**

**O.I. General**

Data Sheet No.: (IM).A.018

Issue: 04

Date: 08 September 2005

1. a) Type
- b) Variant

M-4  
MX-7-180C

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. FAA Certification Date:

27-Aug-1996

6. EASA Validation Date:

5 May 2005

**O.IICertification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7, FAR 23.955 instead of CAR 3.435

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

**O.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model MX-7-180C
2. Description: single piston engine, four-seats (optional five), steel cage construction, high wing with conventional tail and tailwheels with aluminium spring mains Certified as Landplane and Floatplane
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:
  - Lycoming O-360-C1F
  - Engine Limits 2700 rpm, full throttle continuous
6. (reserved)
7. Propellers:
  - Hartzell constant speed HC-C2YR-1BF/F7666A
  - Avoid continuous operations between 2000 and 2250 rpm
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel:            Standard Fuel Tank    Total:            163 Litre  
    Usable:            151,5 Litre
  - 9.2 Oil:    engine external oil tank    Maximum:    7,8 Litre
10. Air Speeds:
  - Landplane:
    - Design Manoevring Speed  $V_A$  :            109 KIAS (125 mph)
    - Flap Extended Speed  $V_{FE}$  :            85 KIAS (98 mph)
    - Maximum Structural Cruising Speed  $V_{NO}$  :            129 KIAS (149 mph)
    - Never Exceed Speed  $V_{NE}$  :            161 KIAS (185 mph)
  - Floatplane:
    - Design Manoevring Speed  $V_A$  :            109 KIAS (125 mph)
    - Flap Extended Speed  $V_{FE}$  :            85 KIAS (98 mph)
    - Maximum Structural Cruising Speed  $V_{NO}$  :            126 KIAS (145 mph)
    - Never Exceed Speed  $V_{NE}$  :            142 KIAS (164 mph)

## Maule M-4

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11. Maximum Masses:	
Take-off	1134 kg (2500 lbs)
12. Centre of Gravity Range:	
<u>Landplane:</u>	from +40,5 to + 52 cm at 1134 kg From +31,5 to +52 cm at 789 kg or less
<u>Floatplane:</u>	from +38,1 to + 48,2 cm at 1134 kg From +34,3 to +48,2 cm at 948 kg or less
13. Datum:	Wing leading edge
14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3 (optional 4)
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **O.IV Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model MX-7-180C dated 26 August 1996, Rev D dated 24 May 2002 or later approved revision  Including AFM-S No 1 (Wipline Model 2350 Amphibious Floats installation in accordance with Maule drawing No 9178A) dated 24 March 1998, Rev C dated 19 August 2002, or later approved revision
Maintenance Manual (MM)	MM for Model MX-7-180C

### **O.V Notes**

1. This certification applies to serial numbers MX-7-180C, S7N 28001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM

**Section P: Model MX-7-235**

**P.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type
- b) Variant

M-4  
MX-7-235

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. LBA Certification Application Date:

4-May-1988

6. FAA Certification Date:

18-Oct-1984

**P.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7, additional FAR 23.955 instead of  
CAR 3.435

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

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### **P.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model MX-7-235
2. Description: single piston engine, four-seats (optional five-seats),  
steel cage construction, high wing with conventional tail  
and tailwheel
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines:  
  
Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D  
IO-540-W1A5 or O-540-B4B5  
  
Engine Limits For all operation 2400 rpm (O-540-J/ O-540-W)  
For all operation 2575 rpm (O-540-B)
6. (reserved)
7. Propellers: (see Note)  
  
Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R  
  
Hartzell constant speed HC-C2YR-1BF/F8477D-6  
  
Hartzell constant speed HC-C3YR-1RF/F7693(F)-()  
  
McCauley constant speed B3D32C414-C/G-82NDA-2 o -4  
  
McCauley constant speed B3D37C224-B/G-90RA-9
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank IO-540: Maximum: 7,8 l, Minimum. 5 l  
O-540: Maximum: 11,8 l, Minimum. 8,9 l
10. Air Speeds:
  - Design Manoeuvring Speed  $V_A$ : 109 KIAS (125 mph)
  - Flap Extended Speed  $V_{FE}$ : 82 KIAS (94 mph)
  - Maximum Structural Cruising Speed  $V_{NO}$ : 126 KIAS (145 mph)
  - Never Exceed Speed  $V_{NE}$ : 156 KIAS (180 mph)

## Maule M-4

### 11. Maximum Masses:

Take-off 1134 kg (2500 lbs)

### 12. Centre of Gravity Range:

Forward limit  
from +38 to + 52 cm at 1134 kg  
From +28 to +52 cm at 771 kg or less

### 13. Datum:

Wing leading edge

### 14. (reserved)

### 15. Levelling Means:

levelling lug and mark on bottom side of  
right wing root

### 16. Minimum Flight Crew:

1 (Pilot)

### 17. Maximum Passenger Seating Capacity:

3 (optional 4)

### 18. (reserved)

### 19. Baggage / Cargo Compartments

Max. Allowable Load 77 kg at +50,8, 158 kg at +107, 113 kg at +178

## P.IV **Operating and Service Instructions**

Airplane Flight Manual (AFM) Model **MX-7-235**, AFM dated 10/18/84 or later approved revision

Maintenance Manual (MM) MM for Model MX-7-235

## P.V **Notes**

1. This certification applies to Model MX-7-235, serial numbers 10001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM
3. Propeller and Propeller limits:  
Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R  
(-3R use with 7:00 tires or larger/26 psi minimum air pressure.)  
Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6  
(Use with O-540-J3A5 or O-540-B4B5 engine only)  
Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-(  
(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)  
Diameter: -3R: Not over 81 in.; not under 77 in.  
-6R: Not over 78 in.; not under 77 in.  
F8477D-6 or F7693(F)-(  
Pitch settings at 30" sta.:  
-3R: low 16° +1° high 30° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 13.8° +1° high 30° +1° (O-540-B4B5 engine)  
-6R: low 16.7° +1° high 30° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)  
low 14.3° +1° high 30° +1° (O-540-B4B5 engine)  
F8477D-6: low 16.7° +1° high 30° +1° (O-540-J3A5 engine)  
low 14.3° +1° high 30° +1° (O-540-B4B5 engine)  
F7693(F)-(  
low 14.2° +1° high 31° +1° (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)  
low 12.5° +1° high 31° +1° (O-540-B4B5 engine)  
-6R: Do not exceed 23 in. M.P. below 2050 rpm.  
McCaughey constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4\*  
(-2 use with 7:00 tires or larger)  
McCaughey constant speed 2-blade model B2D37C224-B/G-90RA-9\*\*  
(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)  
Diameter: -2: not over 80 in.; not under 76 in.  
-4: not over 78 in.; not under 76 in.

## Maule M-4

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-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCauley spinner assembly D-6240 (use with McCauley 3-blade propeller only)

McCauley spinner assembly D-6195 (use with McCauley 2-blade propeller only)

Governor: Woodward F210681\*\*\* or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCauley C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or

IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

\* McCauley B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

\*\* McCauley B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235 with O-540-B4B5 engines.

\*\*\* For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.

**Section Q: Model MXT-7-160**

**Q.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type
- b) Variant

M-4  
MXT-7-160

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. FAA Certification Date:

13-Nov-1992

**Q.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7, FAR 23.955 instead of CAR  
3.435, FAR 1545 instead of CAR 3.757

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

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### Q.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model MXT-7-160
2. Description: single piston engine, two-seats (optional four), steel cage construction, high wing with conventional tail and wheel configuration
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Lycoming O-320-B2D  
Engine Limits 2700 rpm, full throttle continuous
6. (reserved)
7. Propellers: Sensenich fixed pitch 74DM7S5-0-52 or -54 or -56 or  
Sensenich fixed pitch 74DM7S8-0-52 or -54 or -56  
Not over 2500 rpm, not under 2400 rpm at full throttle  
Not over 2620 rpm, not under 2520 rpm at full throttle (-52)
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank Maximum: 7,8 Litre
10. Air Speeds:

Design Manoevring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	82 KIAS (95 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	128 KIAS (147 mph)
Never Exceed Speed $V_{NE}$ :	156 KIAS (180 mph)
11. Maximum Masses:

Take-off	998 kg (2200 lbs)
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12. Centre of Gravity Range:

Forward limit	from +39 to + 52 cm at 998 kg From +33,5 to +52 cm at 726 kg or less
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## Maule M-4

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13. Datum:	Wing leading edge
14. (reserved)	
15. Levelling Means:	levelling lug and mark on bottom side of right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	1 (optional 3)
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **Q.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model MXT-7-160 dated 11/13/92 or later approved revision
Maintenance Manual (MM)	MM for Model MXT-7-160

### **Q.V** **Notes**

1. This certification applies to serial numbers MXT-7-160, S7N 17001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM

**Section R: Model MXT-7-180**

**R.I. General**

Data Sheet No.: (IM).A.018

Issue: 01

Date: 14 December 2004

1. a) Type
- b) Variant

M-4  
MXT-7-180

2. Airworthiness Category

Normal Category

3. Type Certificate Holder:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

4. Manufacturer:

Maule Aerospace Technology, Inc.  
2099 Georgia Highway 133 South  
Moultrie, Georgia 31768  
USA

5. LBA Certification Application Date:

03-Nov-2003

6. FAA Certification Date:

09-Nov-1990

**R.II Certification Basis**

1. (reserved)

2. (reserved)

3. Certification Basis:

CAR 3

4. Airworthiness Requirements:

CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and  
3.705 amended by 3-7, FAR 23.955 instead of CAR 3.435

5. Requirements elected to comply:

None

6. EASA Special Conditions:

None

7. EASA Exemptions:

None

8. EASA Equivalent Safety Findings:

None

9. EASA Environmental Standards:

ICAO, Annex 16, Volume 1

## Maule M-4

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### **R.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model MXT-7-180
2. Description: single piston engine, four-seats (optional five), steel cage construction, high wing with conventional tail and wheel configuration
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Lycoming O-360-C1F  
Engine Limits For all operation 2700 rpm
6. (reserved)
7. Propellers: Hartzell constant speed HC-C2YR-1BF/F7666A  
Avoid continuous operations between 2000 and 2250 rpm
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank Maximum: 7,8 Litre
10. Air Speeds:

Design Manoeuvring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	82 KIAS (95 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	128 KIAS (147 mph)
Never Exceed Speed $V_{NE}$ :	158 KIAS (182 mph)
11. Maximum Masses:

Take-off	1134 kg (2500 lbs)
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12. Centre of Gravity Range:

Forward limit	from +40,5 to + 52 cm at 1043 kg From +31,5 to +52 cm at 789 kg or less
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13. Datum: Wing leading edge
14. (reserved)
15. Levelling Means: levelling lug and mark on bottom side of

## Maule M-4

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	right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3 (optional 4)
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **R.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model MXT-7-180 dated 11/9/90 or later approved revision
Maintenance Manual (MM)	MM for Model MXT-7-180

### **R.V** **Notes**

1. This certification applies to serial numbers MXT-7-180, S/N 14001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM

**Section S: Model MXT-7-180A**

**S.I. General**

Data Sheet No.: (IM).A.018	Issue: 01	Date: 14 December 2004
7. a) Type	M-4	
b) Variant	MXT-7-180A	
8. Airworthiness Category	Normal Category	
9. Type Certificate Holder:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
10. Manufacturer:	Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA	
11. LBA Certification Application Date:	16-Dec-2003	
12. FAA Certification Date:	03-June-1993	

**S.II Certification Basis**

1. (reserved)	
2. (reserved)	
3. Certification Basis:	CAR 3
4. Airworthiness Requirements:	CAR 3, Amendment 3-1 thru 3-5, eff 15-May-1956 and 3.705 amended by 3-7, FAR 23.955 instead of CAR 3.435
5. Requirements elected to comply:	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	None
8. EASA Equivalent Safety Findings:	None
9. EASA Environmental Standards:	ICAO, Annex 16, Volume 1

## Maule M-4

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### **S.III Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List Model MXT-7-180A
2. Description: single piston engine, four-seats, steel cage  
construction, high wing with conventional tail and wheel configuration
3. Equipment: refer to AFM
4. Dimensions: refer to AFM
5. Engines: Lycoming O-360-C1F or O-360-C4F  
Engine Limits 2700 rpm , full throttle continuous
6. (reserved)
7. Propellers: Sensenich fixed pitch 76EM8S5-0-56 or 76EM8S8-0-56  
Not over 2500 rpm, nor under 2400 rpm at full throttle
8. Fluids:
  - 8.1 Fuel 100/100LL minimum grade aviation gasoline
  - 8.2 Oil refer to AFM
9. Fluid capacities
  - 9.1 Fuel: Standard Fuel Tank Total: 163 Litre  
Usable: 151,5 Litre
  - 9.2 Oil: engine external oil tank Maximum: 7,8 Litre
10. Air Speeds:

Design Manoeuvring Speed $V_A$ :	109 KIAS (125 mph)
Flap Extended Speed $V_{FE}$ :	85 KIAS (98 mph)
Maximum Structural Cruising Speed $V_{NO}$ :	129 KIAS (149 mph)
Never Exceed Speed $V_{NE}$ :	161 KIAS (185 mph)
11. Maximum Masses:

Take-off	1089 kg (2400 lbs)
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12. Centre of Gravity Range:

Forward limit	from +38 to + 52 cm at 1089 kg
	From +34,5 to +52 cm at 726 kg or less
13. Datum: Wing leading edge
14. (reserved)
15. Levelling Means: levelling lug and mark on bottom side of

## Maule M-4

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	right wing root
16. Minimum Flight Crew:	1 (Pilot)
17. Maximum Passenger Seating Capacity:	3
18. (reserved)	
19. Baggage / Cargo Compartments	
Max. Allowable Load	77 kg at +50,8, 158 kg at +107, 113 kg at +178

### **S.IV** **Operating and Service Instructions**

Airplane Flight Manual (AFM)	Model MXT-7-180A dated 6/3/93 or later approved revision
Maintenance Manual (MM)	MM for Model MXT-7-180A

### **S.V** **Notes**

1. This certification applies to serial numbers MXT-7-180A, S/N 21001C and up, under Production Certificate 11S0
2. Additional equipment refer to AFM