

AQUA FLOATS

TELEPHONE (320) 524-2782

FAX NO. (320) 524-2783

AQUA LANE

P.O. BOX 247, BRANDON, MINNESOTA 56315-0247

AIRCRAFT FLOAT MANUFACTURING



FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR

MAULE MX-7-160

Reg. No. _____

Ser. No. _____

This Supplement must be attached to the FAA Approved Airplane Flight Manual dated **13 November 1992** when **AQUA Model 2200 Floats** are installed in accordance with **STC No. SA253CH**.

The information contained herein supersedes and supplements the information of the basic Airplane Flight Manual; for limitation, procedures and performance information not contained in this Supplement consult the basic Airplane Flight Manual.

FAA APPROVED: *Joseph C. Miss*
for _____
Manager, Aircraft Certification Office
Federal Aviation Administration
Chicago, Illinois

DATE: MAY 19 1998

CAPRE, INC.
P.O. Box 247
Brandon, MN 56315

AFM SUPPLEMENT FOR
MAULE *MX-7-160* with *AQUA 2200* FLOATS

LOG OF REVISIONS

PAGES AFFECTED	DESCRIPTION	FAA APPROVED

CAPRE, INC.
P.O. Box 247
Brandon, MN 56315

AFM SUPPLEMENT FOR
MAULE MX-7-160 with **AQUA 2200** FLOATS

SECTION I

GENERAL: NORMAL CATEGORY OPERATION

- 1.1 **MAXIMUM WEIGHT:** 2200 lbs.
- 1.2 **CENTER OF GRAVITY LIMITS:** +14.6 to +20.5 inches @ 2200 lbs.
+13.5 to +20.5 inches @ 1600 lbs. or less
Straight line variation between points given
Datum: Wing leading edge

SECTION II

LIMITATIONS

- 2.1 **AIRSPEED LIMITS:** (IAS)
- A. **AIRSPEED INDICATOR MARKINGS:**
Red Radial - V_{NE} 164 mph
- B. **EXPLANATION OF AIRSPEED INDICATOR MARKINGS:**
Red Radial Line - Never Exceed Speed (Seaplane), 164 mph (143K):
Maximum safe speed smooth air.

2.4 **PLACARDS:**

The following placards are in the cockpit in clear view of the pilot:

"RETRACT WATER RUDDER FOR FAST TAXI, TAKEOFF AND LANDING."

"SEAPLANE FLAP LIMITATIONS
TAKEOFF - 24° (2ND NOTCH) MAX.
LANDING - 40° (3RD NOTCH) MAX."

"SEAPLANE V_{NE} @ 164 mph" (Located adjacent to Airspeed Indicator)

SECTION III

NORMAL PROCEDURES

3.1 **PREFLIGHT INSPECTION:**

B. **EXTERIOR:**

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AFM SUPPLEMENT FOR
MAULE MX-7-160 with AQUA 2200 FLOATS

- 31. Floats.....CHECK FOR ATTACHMENT AND WATER RUDDER RIGGING
- 32. Float Compartments.....CHECK FOR WATER

3.2 OPERATING CHECK LISTS:

D. BEFORE TAKEOFF:

- 2. Flaps.....2ND NOTCH FOR T.O.
(MAXIMUM 24°)
- 16. Water Rudder.....RETRACT

E. BEFORE LANDING:

- 5. Flaps.....3RD NOTCH FOR LANDING
(MAXIMUM 40°)
- 6. Water Rudder.....RETRACT

3.3 NORMAL FLIGHT OPERATIONS:

B. RECOMMENDED FLAP SETTINGS:

Flap settings are given in number of notches above the fully retracted position, which is handle full down (Normal -7°).

Normal Takeoff - Use Second Notch (24°) for takeoff. When clear of obstacles and above 75 mph, retract to First Notch (0°) and climb at 90 mph.

SECTION IV

EMERGENCY PROCEDURES

No Change.

SECTION V

WEIGHT AND BALANCE

5.1 WEIGHT AND BALANCE DATA:

Weight and Balance Data pages 5 through 9 of this supplement are in effect for this modification. New Basic Empty Weight for entry on the following page 5 may be computed using Equipment Change page 24 in Weight and Balance Data of the Airplane Flight Manual in lieu of reweighing Floatplane per pages 6, 7 and 8 of this supplement.

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DATE: MAY 19 1998

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MAULE MX-7-160 with AQUA 2200 FLOATS

WEIGHT AND
BALANCE

SECTION V

5.1 WEIGHT AND BALANCE:

Serial Number _____ Registration Number _____

It is the responsibility of the airplane owner and the pilot to insure that the airplane is loaded properly. The empty weight, empty weight center of gravity and useful load are listed below for this airplane. If the airplane has been altered, refer to the aircraft log and/or aircraft records for this information.

WEIGHT AND BALANCE DATA SUMMARY:

Basic Empty Weight (including engine oil)..... _____ Lbs.
 Gross Weight..... 2200 _____ Lbs.
 Useful Load..... _____ Lbs.
 Empty Center of Gravity..... _____ Inches
 Empty Weight Moment..... _____ Inch Lbs.

CENTER OF GRAVITY RANGE:

<u>At Weight of</u>	<u>Center of Gravity Range</u>
2200 lbs.	+14.6 to +20.5 inches
1600 lbs. or less	+13.5 to +20.5 inches

NOTE: Straight line variation between given points
DATUM: Wing leading edge

CERTIFIED BY _____ DATE _____

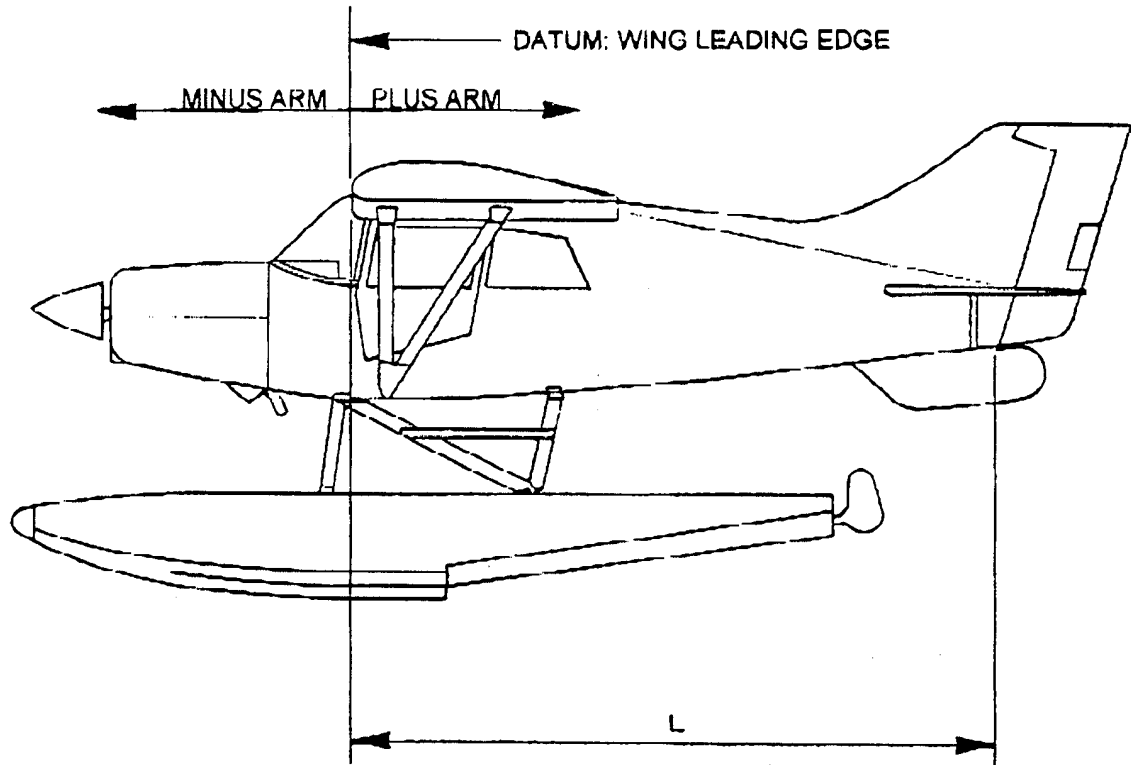
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AFM SUPPLEMENT FOR
MAULE MX-7-160 with AQUA 2200 FLOATS

WEIGHT AND
BALANCE

5.1 WEIGHT AND BALANCE: (Cont'd)

DETAILED CALCULATIONS OF EMPTY WEIGHT AND EMPTY WEIGHT CENTER OF GRAVITY:



PROCEDURE:

1. Using a block and tackle, lift the airplane and place each float on a scale at approximately the datum.
2. Elevate the tail on a scale to the approximate flight attitude. The tail weight point is preferably directly beneath the rear fin attach point and a round metal rod should be placed between the fin and the tare of scale.
3. Place a level on the leveling mark and leveling lug on the bottom of the right wing near the root. Adjust the height of the tail until the level reads level. Be sure the aft end of the level is even with the aft leveling mark.

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MAY 19 1998

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P.O. Box 247
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AFM SUPPLEMENT FOR
MAULE MX-7-160 with AQUA 2200 FLOATS

WEIGHT AND
BALANCE

5.1 WEIGHT AND BALANCE: (Cont'd)

- 4. Using a plumb bob, mark the outsides of the floats at the datum. Raise the airplane off the scales and pass a string under the float keels between these marks. Mark the keels at the datum.
- 5. Place a round rod between the keel and the scale at the datum mark and carefully lower the floats onto the scale, being sure the rod remains under the datum mark.
- 6. Level the aircraft again per step 3.
- 7. Insure that each main fuel tank has 1 1/2 gallons of fuel in it or if totally empty, place a 9 lb. weight over each main tank 24 inches aft of the wing leading edge. Check to be sure the engine has approximately 8 quarts of oil in it.
- 8. Measure the following distances:

- a. Right Float, with tare, = _____ lbs., minus
tare of _____ lbs., = net Right Float weight of _____ lbs.
- b. Left Float, with tare, = _____ lbs., minus
tare of _____ lbs., = net Left Float weight of _____ lbs.
- c. Tail, with tare, = _____ lbs., minus
tare of _____ lbs., = net Tail weight (T) of _____ lbs.

TOTAL EMPTY WEIGHT (W) = _____ lbs.

- 9. Measure the horizontal distance from the datum to the tail weight point, (L).

L = _____ inches

The above empty weight includes unusable fuel of ** lbs. at 24 inches and 8 quarts of oil at minus 36.5 inches, plus all items of equipment as marked on the accompanying Equipment Lists. The Certificated empty weight is the above weight less 16 lbs. drainable oil at a minus arm of 36.5 inches, and for this airplane is _____ lbs. The corresponding empty weight center of gravity is _____ inches.

** Use 18 lbs. for "A" or "B" Tank configuration and 27.6 lbs. for "C" or "D".

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WEIGHT AND
BALANCE

5.1 WEIGHT AND BALANCE: (Cont'd)

10. Calculations for determining weight, C.G. and moment:

a. Center of Gravity (inches) = L x T

i.e., C.G. = _____ - _____ = _____ inches.

b. Moment (inch pounds) = W x C.G.

i.e., Moment = _____ x _____ = _____ inch lbs.

EXAMPLE OF WEIGHT AND BALANCE CALCULATION FOR LOADED AIRCRAFT:

An airplane with an empty weight of 1620 lbs. and an empty weight moment of 24,786 inch lbs. is loaded with a pilot and front seat passenger, and fuel.

Item	Weight, lbs.	C.G Location, Ins.	Moment, In.lbs.
Empty Weight (including engine oil)	1620	15.3	24,786
Pilot and Front Passenger	340	*	6,800
Fuel - 40 gal. in Mains	<u>240</u>	*	<u>5,760</u>
	2200	17.0	37,346

*Moments can be read directly from the loading graph in the basic Flight Manual.

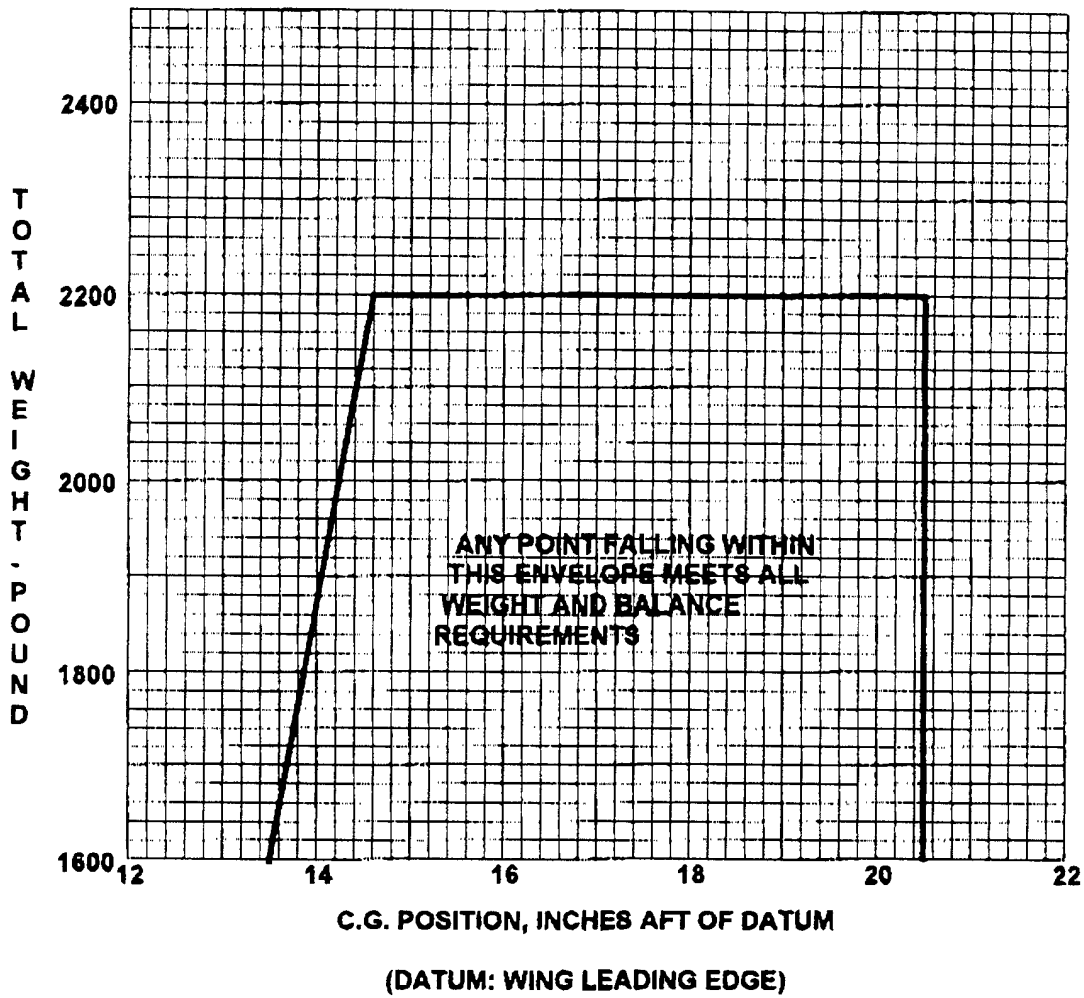
By locating the point corresponding to 2200 lb. aircraft weight and C.G. Location of 17.0 inches on Center of gravity envelope graph, you can see that this point falls within the envelope, signifying the loading is acceptable.

CAPRE, INC.
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AFM SUPPLEMENT FOR
MAULE MX-7-160 with AQUA 2200 FLOATS

WEIGHT AND
BALANCE

WEIGHT AND BALANCE ENVELOPE



MX-7-160 ON AQUA 2200 FLOATS

AQUA FLOATS

TELEPHONE (320) 524-2782

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P.O. BOX 247, BRANDON, MINNESOTA 56315-0247

AIRCRAFT FLOAT MANUFACTURING



Date 2-23-94

DRAWING LIST M-2200

Rev. C 05/06/98

MAULE MX7-180A & B and MX7-160 and M5 Series on Aqua 2200

<u>DWG. NO.</u>	<u>REV.</u>	<u>TO INSTL'RS</u>	<u>DESCRIPTION</u>
A-139	H		Spreader Bar
A-140	E		Angle Eyebolt or AN47-17A
A-148	C		Eyebolt
A-159	C		Wire Pull
A-160	F		Eyebolt Pulley
A-162	F		Water Rudder Assembly
A-183-2	D		Water Rudder Blade
A-184	D		Water Rudder Blade Castings
A-210	C		Stack Pulley
A-212	B		W/R Fairlead & Clamp
A-942	D		W/R Post Assembly
C-9	E		Alt. Swingover Assy.
C-12	A		Strut Section
C-14	A		Spacer
C-30	A		Handle (Alt)
C-37			Spring, Water Rudder
C-38			Rudder Stop/Fairlead
MX-22	C	X	Installation
Sheets 1-13			
M-4	A	X	W/R Bellerank Assembly
M-5	D		Fwd. Fuselage Fitting
M-6	Sht. 1		Rear Fusi. Fitting
	Sht. 2		Rear Fusi. Fitting
	Sht. 3		Rear Fusi. Fitting
	Sht. 4		Rear Fusi. Fitting
M-7	A		Rear Strut Attach Link
M-8	A		Retract Tube
M-9	C		Alt. Rudder Bar
M-11	G		Struts
M-12	B		Pulley Assembly Fuselage
M-15			Fwd. Deck Fitting
M-16			Rear Deck Fitting
M-17	B		X-Wire Fwd. and Rear
M-18	A		Wire Pull
M-19			Cables, Balance, Rudder, and Retract
M-21	D		Placards
M-22	A		Steps, -1,-2

FAA
APPROVED

MAY 19 1998 *MJ -1100*

CHICAGO AIRCRAFT
CERTIFICATION OFFICE
CENTRAL REGION

AQUA FLOATS

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AIRCRAFT FLOAT MANUFACTURING



LOG OF REVISIONS INSTALLATION DRAWING MX-22

- A 08/15/97 Add M-5 Series
- B 03/11/98 Add MX7-180A
- C 05/06/98 Add MX7-160 and Begin Revision Log

F A A
A P P R O V E D

MAY 19 1998 MJ
-116C

CHICAGO AIRCRAFT
CERTIFICATION OFFICE
CENTRAL REGION

United States of America
 Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA253CH

This certificate, issued to CAPRE, Inc.
 One Aqua Lane
 Brandon, MN 56315-0247

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations. (See Type Certificate Data Sheet 3A23 for complete certification basis.)

Original Product — Type Certificate Number: 3A23
Make: Maule
Model: MX-7-180A, MX-7-180B, MX-7-160

Description of Type Design Change:

Installation of Aqua Model 2200 floats in accordance with Aqua Floats Drawing List No. M-2200, for Maule MX-7-180A & B, MX-7-160, and M5 Series on Aqua 2200 Floats, Revision C, dated May 6, 1998, or later FAA approved revisions. Note that additional placards are required to be installed (per the FAA Approved Airplane Flight Manual Supplement).

Limitations and Conditions:

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. FAA Approved Airplane Flight Manual Supplement for Maule MX-7-180B aircraft dated September 6, 1994, or later FAA approved revision is required for this installation.

(See Continuation Sheet 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: January 10, 1994

Date received:

Date of issuance: September 6, 1994

Date amended: March 26, 1998; May 19, 1998



By direction of the Administrator
Mary Ellen A. Schmitt
 Mary Ellen A. Schmitt (signature)
 Manager, Airframe & Administrative Branch
 Chicago Aircraft Certification Office
 (Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.
This certificate may be transferred in accordance with FAR 21.47.

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA253CH

Date of Amendment: May 19, 1998

LIMITATIONS AND CONDITIONS: (Continued from page 1 of 3)

3. FAA Approved Airplane Flight Manual Supplement for Maule MX-7-180A aircraft dated March 25, 1998, or later FAA approved revision is required with this installation.
4. FAA Approved Airplane Flight Manual Supplement for MX-7-160 aircraft dated May 19, 1998, or later FAA approved revision is required with this installation.
5. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

-END-

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.



FAA APPROVED

Airplane Flight Manual Supplement No. 1

FOR

MAULE MX-7-160

Reg. No. _____

Ser. No. _____

This Supplement must be attached to the FAA Approved Airplane Flight Manual dated **13 November 1992** when a Maule Model **MX-7-160** aircraft is registered in **Canada**.

The information contained herein supplements the information of the basic Airplane Flight Manual; for limitations, procedures and performance information consult the basic Airplane Flight Manual.

FAA APPROVED: Eugene R. Bellin
for Manager, Aircraft Certification Office
Federal Aviation Administration
Atlanta, Georgia USA

DATE: SEP 03 1999

Page 1 of 6

ITS PERFORMANCE THAT COUNTS!
2099 Georgia Hwy. 133 South~Moultrie, GA 31768
Tel: 912-985-2045~Fax: 912-890-2402

MAULE AEROSPACE TECHNOLOGY, INC.
AFM SUPPLEMENT No. 1
FOR MAULE **MX-7-160**

The following Conversion Charts facilitate conversions between metric, imperial and U.S. units.

1. WEIGHT CONVERSIONS:

(Kilograms x 2.205 = Pounds) ~ (Pounds x .454 = Kilograms)

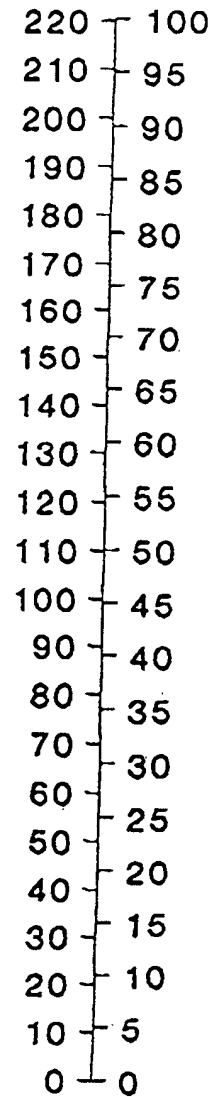
**KILOGRAMS INTO POUNDS
KILOGRAMMES EN LIVRES**

kg	0	1	2	3	4	5	6	7	8	9
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
0	..	2.205	4.409	6.614	8.819	11.023	13.228	15.432	17.637	19.842
10	22.046	24.251	26.456	28.660	30.865	33.069	35.274	37.479	39.683	41.888
20	44.093	46.297	48.502	50.706	52.911	55.116	57.320	59.525	61.729	63.934
30	66.139	68.343	70.548	72.753	74.957	77.162	79.366	81.571	83.776	85.980
40	88.185	90.390	92.594	94.799	97.003	99.208	101.41	103.62	105.82	108.03
50	110.23	112.44	114.64	116.85	119.05	121.25	123.46	125.66	127.87	130.07
60	132.28	134.48	136.69	138.89	141.10	143.30	145.51	147.71	149.91	152.12
70	154.32	156.53	158.73	160.94	163.14	165.35	167.55	169.76	171.96	174.17
80	176.37	178.57	180.78	182.98	185.19	187.39	189.60	191.80	194.01	196.21
90	198.42	200.62	202.83	205.03	207.24	209.44	211.64	213.85	216.05	218.26
100	220.46	222.67	224.87	227.08	229.28	231.49	233.69	235.90	238.10	240.30

**POUNDS INTO KILOGRAMS
LIVRES EN KILOGRAMMES**

lb.	0	1	2	3	4	5	6	7	8	9
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
0	..	0.454	0.907	1.361	1.814	2.268	2.722	3.175	3.629	4.082
10	4.538	4.990	5.443	5.897	6.350	6.804	7.257	7.711	8.165	8.618
20	9.072	9.525	9.979	10.433	10.886	11.340	11.793	12.247	12.701	13.154
30	13.608	14.061	14.515	14.969	15.422	15.876	16.329	16.783	17.237	17.690
40	18.144	18.597	19.051	19.504	19.958	20.412	20.865	21.319	21.772	22.226
50	22.680	23.133	23.587	24.040	24.494	24.948	25.401	25.855	26.308	26.762
60	27.216	27.669	28.123	28.576	29.030	29.484	29.937	30.391	30.844	31.298
70	31.752	32.205	32.659	33.112	33.566	34.019	34.473	34.927	35.380	35.834
80	36.287	36.741	37.195	37.648	38.102	38.555	39.009	39.463	39.916	40.370
90	40.823	41.277	41.731	42.184	42.638	43.091	43.545	43.999	44.452	44.906
100	45.359	45.813	46.266	46.720	47.174	47.627	48.081	48.534	48.988	49.442

POUNDS KILOGRAMS



Units x 10, 100, etc

FAA APPROVED
DATE: SEP 03 1999

MAULE AEROSPACE TECHNOLOGY, INC.
AFM SUPPLEMENT No. 1
FOR MAULE **MX-7-160**

2. LENGTH CONVERSIONS:

(Meters x 3.281 = Feet) ~ (Feet x .305 = Meters)

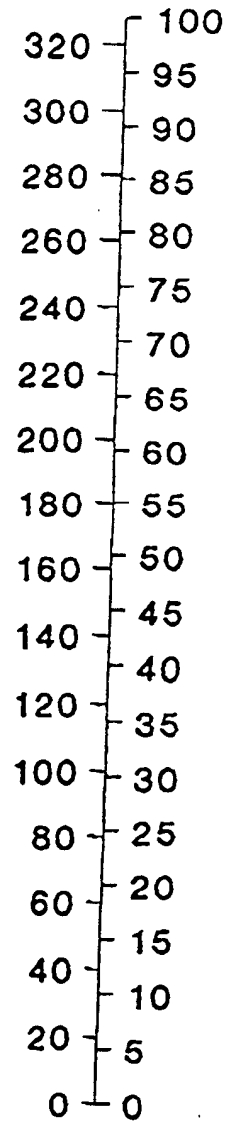
**METRES INTO FEET
METRES EN PIEDS**

m	0	1	2	3	4	5	6	7	8	9
	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet
0	...	3.281	6.562	9.842	13.123	16.404	19.685	22.966	26.247	29.528
10	32.808	36.089	39.370	42.651	45.932	49.212	52.493	55.774	59.055	62.336
20	65.617	68.897	72.178	75.459	78.740	82.021	85.302	88.582	91.863	95.144
30	98.425	101.71	104.99	108.27	111.55	114.83	118.11	121.39	124.67	127.95
40	131.23	134.51	137.79	141.08	144.36	147.64	150.92	154.20	157.48	160.76
50	164.04	167.32	170.60	173.88	177.16	180.45	183.73	187.01	190.29	193.57
60	196.85	200.13	203.41	206.69	209.97	213.25	216.53	219.82	223.10	226.38
70	229.66	232.94	236.22	239.50	242.78	246.06	249.34	252.62	255.90	259.19
80	262.47	265.75	269.03	272.31	275.59	278.87	282.15	285.43	288.71	291.99
90	295.27	298.56	301.84	305.12	308.40	311.68	314.96	318.24	321.52	324.80
100	328.08	331.36	334.64	337.93	341.21	344.49	347.77	351.05	354.33	357.61

**FEET INTO METRES
PIEDS EN METRES**

feet	0	1	2	3	4	5	6	7	8	9
	metres	metres	metres	metres	metres	metres	metres	metres	metres	metres
0	...	0.305	0.610	0.914	1.219	1.524	1.829	2.134	2.438	2.743
10	3.048	3.353	3.658	3.962	4.267	4.572	4.877	5.182	5.486	5.791
20	6.096	6.401	6.706	7.010	7.315	7.620	7.925	8.230	8.534	8.839
30	9.144	9.449	9.754	10.058	10.363	10.668	10.973	11.278	11.582	11.887
40	12.192	12.497	12.802	13.106	13.411	13.716	14.021	14.326	14.630	14.935
50	15.240	15.545	15.850	16.154	16.459	16.764	17.069	17.374	17.678	17.983
60	18.288	18.593	18.898	19.202	19.507	19.812	20.117	20.422	20.726	21.031
70	21.336	21.641	21.946	22.250	22.555	22.860	23.165	23.470	23.774	24.079
80	24.384	24.689	24.994	25.298	25.603	25.908	26.213	26.518	26.822	27.127
90	27.432	27.737	28.042	28.346	28.651	28.956	29.261	29.566	29.870	30.175
100	30.480	30.785	31.090	31.394	31.699	32.004	32.309	32.614	32.918	33.223

FEET METRES



Units x 10, 100, etc.

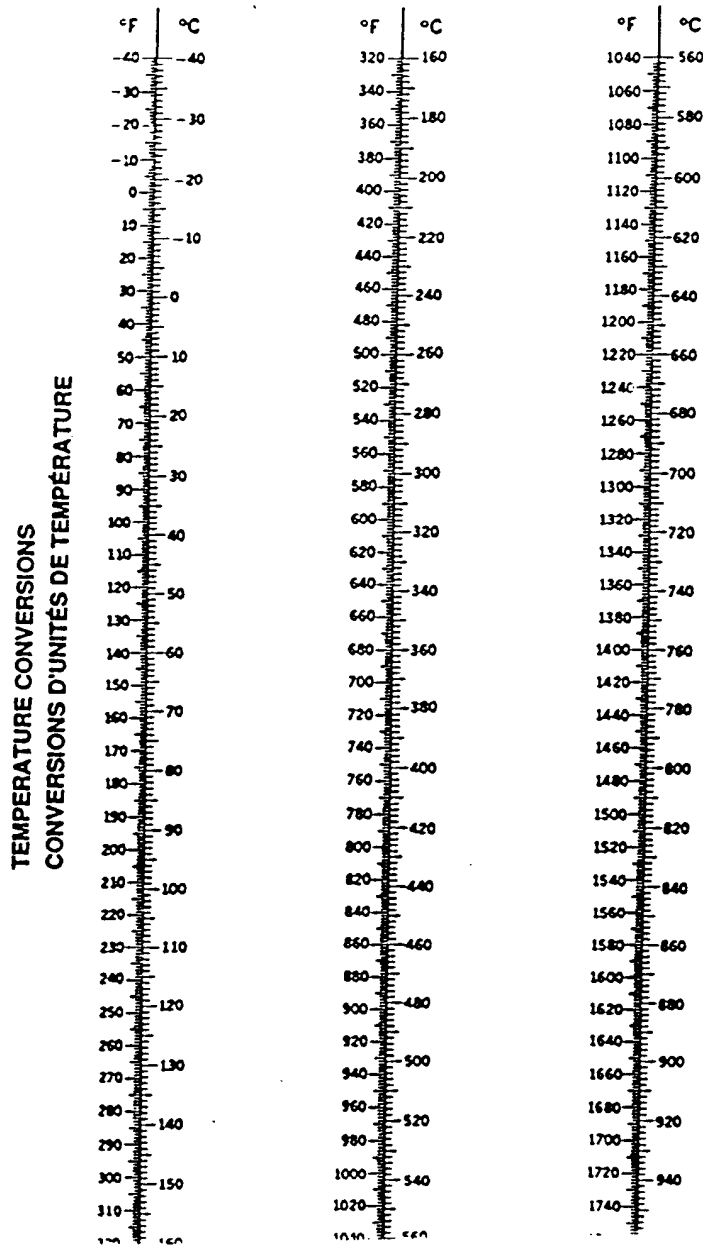
FAA APPROVED
DATE: SEP 03 1999

MAULE AEROSPACE TECHNOLOGY, INC.
 AFM SUPPLEMENT No. 1
 FOR MAULE **MX-7-160**

3. TEMPERATURE CONVERSIONS:

$$(^{\circ}\text{F} - 32) \times 5/9 = ^{\circ}\text{C} \times 9/5 + 32 = ^{\circ}\text{F}$$

TEMPERATURE CONVERSIONS

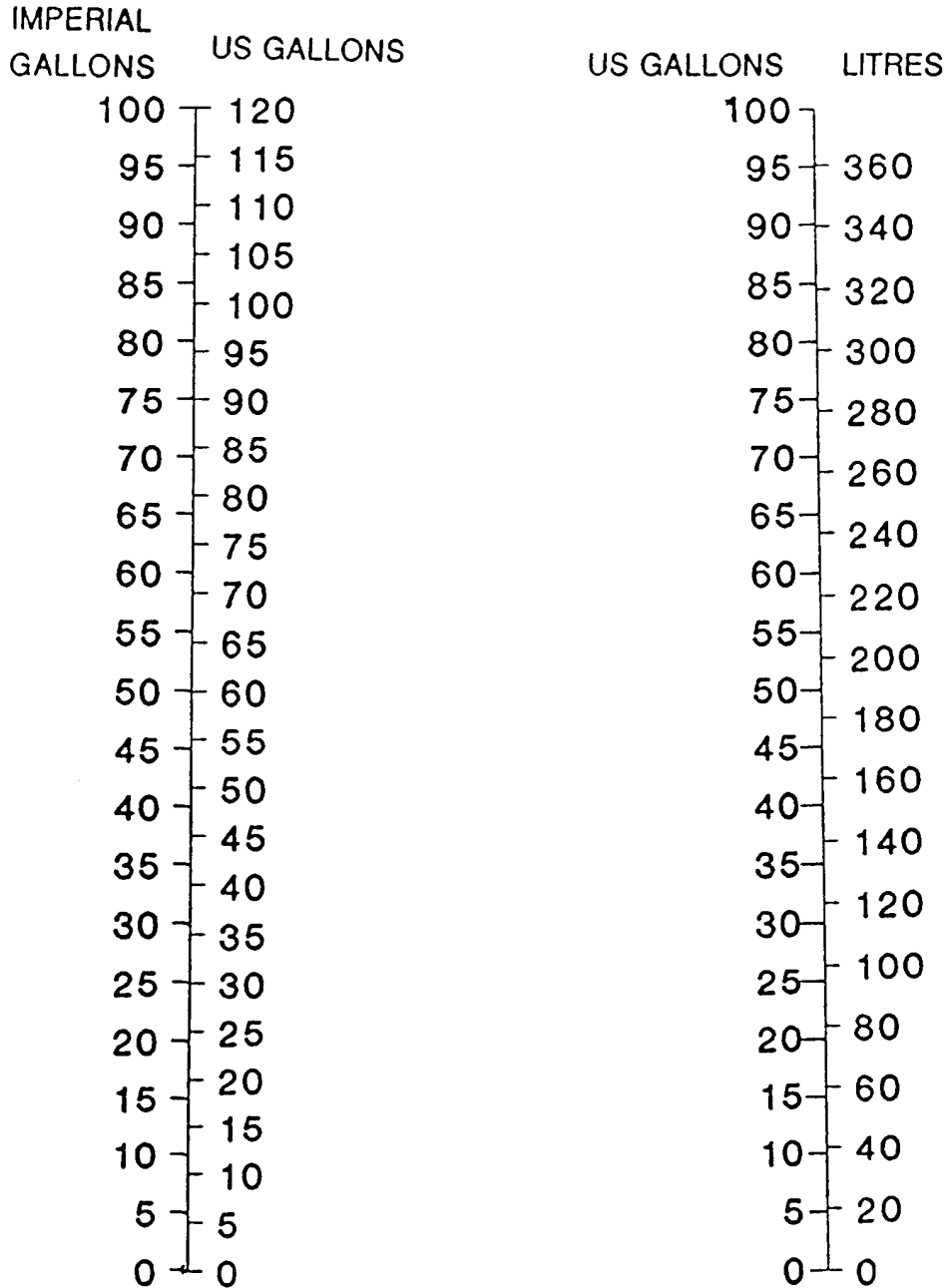


FAA APPROVED
 DATE: SEP 03 1999

MAULE AEROSPACE TECHNOLOGY, INC.
 AFM SUPPLEMENT No. 1
 FOR MAULE **MX-7-160**

4. VOLUME CONVERSIONS:

(Imperial Gallons x 1.2 = US Gallons) ~ (US Gallons x .833 = US Gallons)
 (US Gallons x 3.785 = Liters) ~ (Liters x .264 = US Gallons)



Units x 10, 100, 1000, etc.

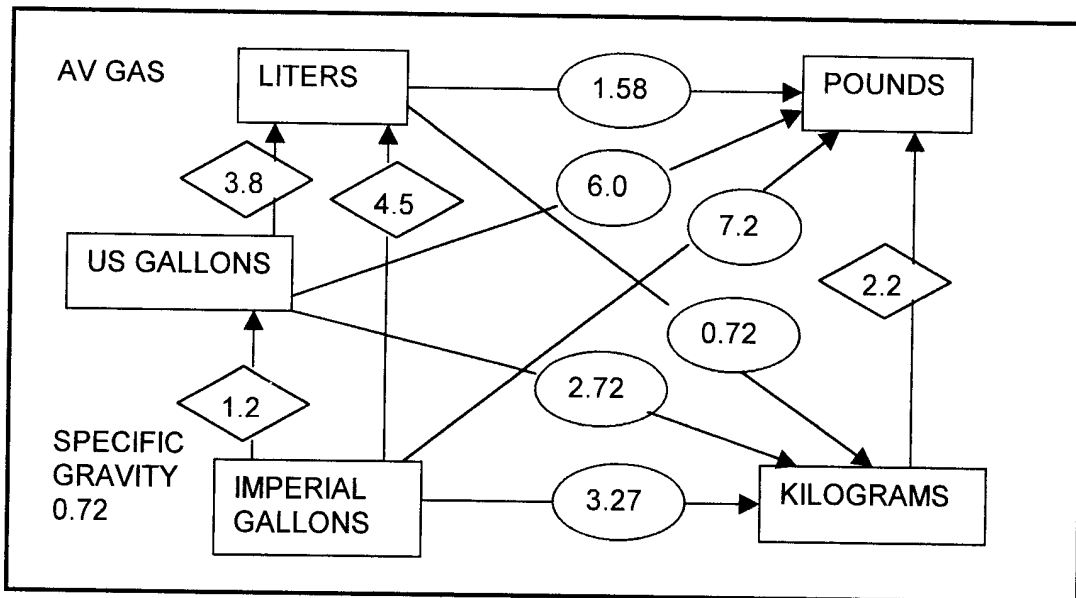
FAA APPROVED
 DATE: SEP 03 1999

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MAULE AEROSPACE TECHNOLOGY, INC.
 AFM SUPPLEMENT No. 1
 FOR MAULE **MX-7-160**

5. QUICK CONVERSIONS:

In a world of US, Imperial and metric measures, below is a quick way to convert from one system to another. Follow arrow and multiply; backtrack the arrow and divide. Bear in mind that these figures are approximations for quick reference but with enough accuracy to eliminate gross errors.





FAA APPROVED

Airplane Flight Manual Supplement No. 2

FOR

MAULE MX-7-160

Reg. No. _____

Ser. No. _____

This Supplement must be attached to the FAA Approved Airplane Flight Manual dated **13 November 1992** when **Sensenich Model 74DM7S5-0-52 or 74DM7S8-0-52, -54 or -56 Propeller** is installed in accordance with Maule Drawing No. **5538B**.

The information contained herein supersedes and supplements the information of the basic Airplane Flight Manual; for limitation, procedures and performance information not contained in this Supplement, consult the basic Airplane Flight Manual.

FAA APPROVED: Eugene R. Bellin
for Manager, Aircraft Certification Office
Federal Aviation Administration
Atlanta, Georgia USA

DATE: FEB 11 2000

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ITS PERFORMANCE THAT COUNTS!
2099 Georgia Hwy. 133 South~Moultrie, GA 31768
Tel: 912-985-2045~Fax: 912-890-2402

MAULE AEROSPACE TECHNOLOGY, INC.
AFM SUPPLEMENT No. 2
FOR MAULE ***MX-7-160***

SECTION II

LIMITATIONS

2.2 **POWER PLANT LIMITS:**

Propeller: Sensenich fixed Pitch 74DM7S5-0-52 or 74DM7S8-0-52, -54 or -56

FAA APPROVED
DATE: FEB 11 2000

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