

MAULE AEROSPACE TECHNOLOGY, INC.

LAKE MAULE -:- RT. 5, BOX 318 -:- MOULTRIE, GA. 31768 -:- PHONE (912) 985-2045 -:- FAX: (912) 890-2402

Rev. 1

M-4-220C/180C

REQUIRED EQUIPMENT LIST

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FAA APPROVED: 

Aircraft Certification Office
Federal Aviation Administration
Atlanta, Georgia

AUG 17 1995

DATE: _____

IT'S PERFORMANCE THAT COUNTS!

M-4-180C/220C

REQUIRED EQUIPMENT LIST

SERIAL NO. _____ REG. NO. _____ PROD. NO. _____
NOTE: Equipment items installed below are designated by circle
CATEGORY, MANUFACTURER AND PART OR MODEL NO. _____ WEIGHT (lbs.) ARM (ins)

PROPELLER AND ACCESSORIES

1. PROPELLER

A. McCauley				
1.	2A31C21 84S-6	(-220)	43.0	-60.5
2.	2A31C21 84S-8	(-220)	42.5	-60.5
3.	2A34C22-N S84SF-6	(-220/180)	46.0	-60.5
4.	2A34C22-N S84SF-8	(-220)	45.5	-60.5
Note: Cowl Flap p/n 5090E used with items 3 & 4.				

2. SPINNER (& SPINNER & BULKHEAD ASSEMBLY)

A. Cessna				
1.	0552016-1	(Use with Propeller 1/2 only)	1.0	-64.0
B. McCauley				
1.	D4180	(Use with Propeller 3/4 only)	1.6	-64.0
2.	D4101 (Spinner & Bulkhead Assembly)	(")	2.8	-60.0

3. SPINNER BULKHEAD ASSEMBLY

A. Cessna				
1.	0552016-3	(Use with Propeller 1/2 only)	.6	-56.5
B. McCauley				
1.	C4181	(Use with Propeller 3/4 only)	1.2	-56.5

4. GOVERNOR

A. Woodward				
1.	210453		3.5	-51.8
1.	210660		2.6	-51.8

ENGINE AND ACCESSORIES

5. ENGINE

A. Franklin				
1.	6A-350-C1	(-220)	300.0	-39.8
2.	6A-335-B1A	(-180)	300.0	-39.8

6. CARBURETOR

A. Marvel				
1.	MA-5		4.8	-24.0

7. MAGNETOS (2)

A. Scintilla/Bendix				
1.	S6RN-21		12.0	-23.0

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8. IGNITION WIRING

A. Shielded Franklin
 1. 20598 5.0 -24.0

9. SPARK PLUGS

A. Champion
 1. RHB32N 3.3 -39.5
 2. RHB32E 3.3 -39.5
 3. 281 3.3 -39.5
 4. 273 3.3 -39.5
 5. 283 3.3 -39.5

10. STARTER

A. Prestolite
 1. MC1-6502 18.8 -24.3

11. ALTERNATOR

A. Prestolite
 1. ALH-5106 11.5 -26.5

12. OIL COOLER

A. Harrison
 1. 8534108 (per 5022F) 4.5 -32.5
 B. Franklin
 1. P6761 (per 5022F) 4.5 -32.5
 C. Niagara
 1. 20006A (per 5022F) 4.5 -32.5

13. FUEL PUMP - ENGINE

A. Franklin
 1. 20574/21585/AC4886 11.0 -24.7

ELECTRICAL**14. BATTERY**

A. Exide
 1. AC78M 27.0 13.0/95.0
 B. Willard
 1. W-78M 27.0 13.0/95.0

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14. BATTERY (Cont'd)

C. Rebat		
1.	R-35M	26.4 13.0/95.0
2.	S-24	22.0 13.0/95.0
3.	S-25	22.0 13.0/95.0
D. Concorde		
1.	CB 35M	26.5 13.0/95.0
E. Teledyne/Gil		
1.	G-35M	27.0 13.0/95.0
2.	G-35S	27.0 13.0/95.0

15. BATTERY SOLENOID

A. RBM Controls/Essex		
1.	71-111221-5	.9 12.5/91.0
B. Delco-Remy		
1.	71-111221	.9 12.5/91.0
2.	1114213	.9 12.5/91.0
3.	RBM 2295-7	.9 12.5/91.0

Note: Battery Solenoid arm is 89.0 with battery AC78M.

16. STARTER SOLENOID

A. RBM Controls/Essex		
1.	70-112225-5	.7 -18.0
B. Delco-Remy		
1.	DR1114213	.7 -18.0
2.	DR1118823	.7 -18.0
3.	SAW 4201	.7 -18.0
4.	SAW 4203	.7 -18.0
5.	SAW 4204	.7 -18.0

17. ELECTRICAL FUEL PUMP

A. Dukes Astronautics		
1.	4140-00-57	2.1 -20.0

18. VOLTAGE REGULATOR

A. Prestolite		
1.	VSF-7201	0.7 -18.5
2.	VSF-7203(S)	0.7 -18.5

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19. ALTERNATOR CONTROL (Optional to Voltage Regulator)

A. Lamar, Inc.			
1. B-00371-8		.3	-16.0

INSTRUMENTS NOTE: REQUIRED INSTRUMENT MARKINGS TO BE PER AFM/AFMS.

20. STALL WARNING

A. Maule			
1. 6016F		.1	1.5

21. COMPASS

A. Hamilton Instruments			
1. HI-400		.6	-2.0
B. Airpath			
1. C-2300(-L4)(-1B)		.8	-2.0
2. C-2300-DL		.8	-2.0
3. C-2400-LP		.8	-2.0
4. C-2400-L4P(-1B)		.8	-2.0

22. ALTIMETER

A. Kollsman			
1. B-11		1.0	-2.0
2. C-12		1.0	-2.0
3. C-13		1.0	-2.0
B. Aerosonic			
1. 101720-01545		1.0	-2.0
2. 101720-01546 (Mb)		1.0	-2.0
3. 12003(P)		1.0	-2.0
4. 101720-01694		1.0	-2.0
C. Aeritalia			
1. 16030SK		1.2	-2.0
2. 8.040.708.1		1.2	-2.0
D. United Instrument/Mitchell			
1. 5932		1.0	-2.0
2. 5934		1.0	-2.0
3. 5934-1 code A68 (InHg)		1.0	-2.0
4. 5934P-1 code A83 (InHg w/Barber pole)		1.0	-2.0
5. 5934PM/1 code A84 (Mb w/Barber pole)		1.0	-2.0
6. 5934D-1 code A129 (Dual-Mb/InHg)		1.0	-2.0
7. 5934PD-1 code A130 (Dual-Mb/InHg w/Barber pole)		1.0	-2.0
8. 5934M-1 code A73 (Mb)		1.0	-2.0

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23. AIRSPEED**A. Aerosonic**

1.	230-217-56-1210	.8	-2.0
2.	230-220-56-1210	.8	-2.0
3.	230-40-201(-2)	.8	-2.0
4.	230-217-56-1410	.8	-2.0
5.	S15KAW	1.0	-2.0
6.	20025-01200	.8	-2.0
7.	20025-01208	.8	-2.0
8.	S18KAW-1	.8	-2.0

B. EDO-Aire/Sigma Tek, Inc.

1.	EA5171-01	.7	-1.0
2.	EA5171-02 MAL	.6	-1.0
3.	EA5171-03 MAL	.6	-1.0
4.	EA5171-04 MAL	.6	-1.0
5.	EA5171-05 MAL	.6	-1.0
6.	EA5171-06 MAL	.6	-1.0
7.	EA5171-09 MAL (MPH/K)	.6	-1.0
8.	EA5171-010 MAL (K)	.6	-1.0
9.	EA5174-01	.7	-1.0
10.	EA5174-02 PT-MAL	.7	-1.0
11.	EA5174-03 PT-MAL (TAS)	.7	-1.0
12.	EA5174-06 PT-MAL (TAS)	.7	-1.0

C. United Instruments, Inc.

1.	8000	.7	-1.1
2.	UI8000-B690	.7	-1.1

D. Eclipse Pioneer

1.	1426-13-A1	.7	-1.0
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E. Aeritalia

1.	8.039.808.1	.7	-1.0
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24. INSTRUMENT CLUSTER**A. AC**

1.	AC6459941 (Fuel & Amp)	.6	-0.8
2.	AC6459944 (Oil, CHT)	.6	-0.8

B. Stewart-Warner

1.	436397	1.0	-0.6
2.	436484	1.0	-0.6

C. Rochester

1.	6247-00185	1.0	-0.6
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25. MANIFOLD AND FUEL PRESSURE

A. Aerosonic			
1. 735-100		1.0	-1.5
2. 735-101		1.0	-1.5
B. EDO-Aire			
1. IU028-005-38		1.0	-1.0
C. United Instrument			
1. 6080M		1.0	-1.5

26. FUEL PRESSURE GAUGE

A. U.S. Gauge			
1. AW-2-21-B		.5	-0.8
2. AW-1-7/8-15-CDF11		.5	-0.8

27. MANIFOLD PRESSURE GAUGE

A. U.S. Gauge			
1. 6000M		.8	-1.5
B. Ramco			
1. AN5770		.8	-1.5

28. TACHOMETER

A. AC			
1. RT-9		.8	-1.1

LANDING GEAR

29. TIRES w/TUBES (2 ea.) TYPE III 4/6 PLY TO TSO C62b

A. 6:00 x 6		23.1	-2.5
B. 7:00 x 6		23.6	-2.5
C. 8:00 x 6		25.2	-2.5
D. 8:50 x 6		38.2	-2.5

30. MAIN WHEEL (2 ea)

A. Cleveland			
1. 40-97D		12.4	-2.5
2. 40-75D (Dual)		12.8	-2.5
3. 40-28		10.2	-2.5
4. C38500HA		10.2	-2.5

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31. BRAKES - MAIN WHEEL (2 ea.)

A. Cleveland		
1.	30-63E	1.9 -2.5
2.	30-52N (Dual)	2.9 -2.5
3.	30-18	1.5 -2.5
4.	C2000	1.8 -2.5

32. TAILWHEEL

A. MAULE		
1.	SFS-1-2	6.2 185.0
2.	SFS-P8-1-2	7.0 185.0
3.	SFS-P8A-1-2	7.0 185.0
4.	SFS-P8B-1-2	8.0 185.0

SAFETY BELTS

33. FRONT SEAT BELT & SHOULDER HARNESS ASSEMBLIES/LAP BELT ASSEMBLIES (2 ea.)

A. AM-Safe, Inc.		
1.	500661-401	2.6 36.0
2.	500661-405	2.6 36.0
3.	502338-413 (r)/-417 (L) (Rotary Buckle)	2.5 37.0
4.	502338-423 (R)/-425 (L) (Rotary Buckle)	2.5 37.0
5.	B-32T-26 p/n 9601F (Lap Belt)	1.5 24.0
B. Pacific Scientific (Rotary Buckle)		
1.	1101020-7 (L)/-9 (R) (Lap Belt)	1.6 36.0
2.	2B25A()X-15 (Shoulder Harness)	.9 38.0
C. Rupert		
1.	Model 50 (Lap Belt)	1.5 24.0

34. REAR SEAT BELT (1 ea.) & SHOULDER HARNESS/LAP BELT ASSEMBLIES (2 ea.)

A. Rupert		
1.	Series MM 65-80 AC (Lap Belt - Double Occupant)	.6 52.0
B. AM-Safe, Inc.		
1.	500915-3 (Lap Belt - Double Occupant)	.6 52.0
2.	500661-409 (Shoulder Harness & Lap Belt)	2.5 55.0/80.0
3.	B-32T-32 p/n 9601F (Lap Belt)	.6 52.0

35. CARGO & LUGGAGE STRAPS

A. Aeroquip		
1.	31010036072-022 (Front)	.8 43.5
2.	31010036072-022 (Rear)	.8 71.0

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LIGHTS

36. NAVIGATION LIGHTS - WING

A. Whelen Engineering Co.

1.	A650 PR (Red) (Power Supply A490-T-DF-14)	1.8	17.5
2.	A650 PG (Green) (Power Supply A490-T-DF-14)	1.8	17.5
3.	62-A470-W (Power Supply A490-T-DF-14)	.5	37.9

B. Grimes

1.	Type 1285, Red (left)	.3	16.0
2.	Type 1285, Green (right)	.3	16.0

C. See Optional Equipment List, Item I.

37. NAVIGATION LIGHTS - TAIL

A. Grimes

1.	Type A-2064-12	.2	199.0
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B. Glar-Ban

1.	5107 C14B	.2	199.0
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38. LANDING LIGHT

A. Maule

1.	9030E	1.0	5.0
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EMERGENCY LOCATION TRANSMITTERS

39. EMERGENCY LOCATION TRANSMITTERS (ELT)

A. Leigh

1.	7H-2-190 Mod. # Type AF/AP/P	2.3	18.8
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B. Narco

1.	ELT-10	3.5	18.8
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C. Emergency Beacon Corp.

1.	EBC-102A	1.2	36.7
2.	EBC-502	2.8	36.7

D. Merl, Inc.

1.	Model #79007-P	2.5	20.0
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E. Sharc 7

1.	7A-81 Type AF	2.3	18.8
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