



Required Equipment List M-9-235


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REQUIRED EQUIPMENT LIST

SERIAL NO. _____ REG. NO. _____ PROD. NO. _____
 NOTE: Equipment items installed below are designated by check marks.
 CATEGORY, MANUFACTURER AND PART OR MODEL NO. _____ WEIGHT (Lbs) ARM (Ins) _____

LOG OF REVISIONS

| REV | DATE REV. SUBMITTED | TO PAGES | DESCRIPTION | APPROVAL AND DATE |
|-------------|---------------------|----------|---|--|
| <i>I.R.</i> | 2/16/12 | All | Initial Revision |  DATE: <u>APR 11 2012</u> |
| 1 | 2/14/13 | 4 | Added EDM-930. |  DATE: <u>FEB 15 2013</u> |
| 2 | 7/8/13 | 1 5 | Added 24v Concorde RG24-11M and RG24-15M Batteries. Added Power Supply A490TCF to Item 30.A.1, 2, 4 and 5. |  DATE: <u>JUL 20 2013</u> |
| 3 | 12/2/13 | 2 3 | Corrected 10.A.1./2. P/Ns. Added 6146A Instrument Cluster. |  DATE: <u>DEC 2 2013</u> |
| 4 | 9/25/14 | 2 | Added CJ Aviation Boost Pumps P/N's 1471-00-3CJ (14V) and 4140-00-401CJ |  DATE: <u>OCT - 7 2014</u> |
| 5 | 2/12/15 | 2 | Added Kissling and Sky-Tec Battery and Starter Solenoids. |  DATE: <u>FEB 26 2015</u> |
| 6 | 2/26/15 | 2 | Added Precision Airmotive Alternator Control p/n's B-00371-8 and B-00368-12. Added Lamar Technologies, LLC as manufacturer. |  DATE: <u>FEB 27 2015</u> |
| 7 | 3/22/16 | 3 & 4 | Corrected part numbers for EDO-Aire/Sigma-Tek, Inc. Airspeed Indicators. Added United Instrument/Mitchell Altimeters. |  DATE: <u>APR 14 2016</u> |
| 8 | 4/5/18 | 6 | Added J.P. Instruments EDM-900 |  DATE: <u>SEP 25 2018</u> |

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CATEGORY, MANUFACTURER AND PART OR MODEL NO. WEIGHT (Lbs) ARM (Ins)

| | | | | |
|---|---------|---|---|--|
| 9 | 4/23/19 | 8 | Added Whelen Wingtip Position Lights (14V & 28V) and Whelen Tail Position Lights (14V & 28V) | |
|---|---------|---|---|--|

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CATEGORY, MANUFACTURER AND PART OR MODEL NO. _____ WEIGHT (Lbs) ARM (Ins) _____

PROPELLER AND ACCESSORIES

1. Propeller

A. McCauley

| | | | |
|----|---------------------------|------|-------|
| 1. | B3D32C414-[]/[]-82NDA-2 | 67.0 | -61.5 |
|----|---------------------------|------|-------|

2. Spinner & Bulkhead Assembly

A. McCauley

| | | | |
|----|--------|-----|-------|
| 1. | D-6240 | 4.2 | -62.3 |
|----|--------|-----|-------|

3. Governor

A. McCauley

| | | | |
|----|----------------|-----|-------|
| 1. | DC290D1(X)/T14 | 2.8 | -52.5 |
|----|----------------|-----|-------|

ENGINE AND ACCESSORIES

4. Engine

A. Textron/Lycoming

| | | | |
|----|-------------|-------|-------|
| 1. | IO-540-W1A5 | 394.0 | -39.6 |
|----|-------------|-------|-------|

5. Oil Cooler

A. Harrison

| | | | |
|----|---------|-----|-------------|
| 1. | 8529245 | 3.5 | -26.0/-25.0 |
|----|---------|-----|-------------|

B. Niagara

| | | | |
|----|--------|-----|-------|
| 1. | 20003A | 3.5 | -25.0 |
|----|--------|-----|-------|

ELECTRICAL

6. Battery

A. Exide

| | | | |
|----|-----------------|------|---|
| 1. | AC78M (12 volt) | 27.0 | * |
|----|-----------------|------|---|

B. Rebat

| | | | |
|----|-----------------|------|---|
| 1. | R-35M (12 volt) | 26.4 | * |
|----|-----------------|------|---|

C. Willard

| | | | |
|----|-----------------|------|---|
| 1. | W-78M (12 Volt) | 27.0 | * |
|----|-----------------|------|---|

D. Concorde

| | | | |
|----|--------------------|------|----|
| 1. | CB 35M (12 volt) | 26.5 | * |
| 2. | RG-35A (12 volt) | 29.5 | * |
| 3. | RG-35AXC (12 volt) | 32.0 | * |
| 4. | RG24-11M (24 volt) | 26.5 | ** |
| 5. | RG24-15M (24 volt) | 29.5 | ** |

E. Teledyne/Gil

| | | | |
|----|-----------------|------|----|
| 1. | G-35M (12 volt) | 27.0 | * |
| 2. | G-243 (24 volt) | 28.0 | ** |

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CATEGORY, MANUFACTURER AND PART OR MODEL NO. WEIGHT (Lbs) ARM (Ins)

| | | | |
|----|-----------------|------|---|
| 3. | G-35S (12 volt) | 27.0 | * |
|----|-----------------|------|---|

* Battery Arm: (12 v) 95" (lt. side) or 112" (rt. side) **Battery Arm: (24 v) 96.4" (lt. side) or 95.6" (rt. side)

7. Battery Solenoid

A. White Rodgers/RBM/Essex

| | | | |
|----|-----------------------|----|------|
| 1. | 71-111221-5 (14 volt) | .9 | *** |
| 2. | 71-117226-5 (28 volt) | .8 | **** |

B. Kissling

| | | | |
|----|---------------------|----|-----|
| 1. | 29.311.11 (14 volt) | .9 | *** |
|----|---------------------|----|-----|

C. Sky-Tec

| | | | |
|----|-------------------|----|------|
| 1. | STS-M12 (14 volt) | .9 | *** |
| 2. | STS-M24 (28 volt) | .8 | **** |

*** Solenoid Arm: (12 volt) 80.0" (lt. side) or 106.5" (rt. side)

**** Solenoid Arm: (24 volt) 80.0" (lt. side) or 106.5" (rt. side)

8. Starter Solenoid

A. Prestolite

| | | | |
|----|-----------|----|-------|
| 1. | SAZ-4201E | .7 | -18.0 |
|----|-----------|----|-------|

B. White Rodgers/RBM Controls/Essex

| | | | |
|----|-----------------------|----|-------|
| 1. | 70-112225-5 (14 volt) | .7 | -18.0 |
| 2. | 70-118225-5 (28 volt) | .7 | -18.0 |

C. Kissling

| | | | |
|----|---------------------|----|-------|
| 1. | 29.311.11 (14 volt) | .7 | -18.0 |
|----|---------------------|----|-------|

D. Sky-Tec

| | | | |
|----|-------------------|----|-------|
| 1. | STS-S12 (14 volt) | .7 | -18.0 |
| 2. | STS-S24 (28 volt) | .7 | -18.0 |

9. Electrical Fuel Pump

A. Dukes Astronautics

| | | | |
|----|-----------------------|-----|-------|
| 1. | 1471-00-1 (14 volt) | 2.1 | -20.0 |
| 2. | 1471-00-3 (14 volt) | 2.1 | -20.0 |
| 3. | 4140-00-401 (28 volt) | 2.2 | -20.0 |

B. CJ Aviation

| | | | |
|----|-------------------------|-----|-------|
| 1. | 1471-00-3CJ (14 volt) | 3.0 | -20.0 |
| 2. | 4140-00-401CJ (28 volt) | 3.0 | -20.0 |

10. Alternator Control

A. Precision Airmotive Corporation/Lamar, Inc./Lamar Technologies, LLC

| | | | |
|----|----------------------|----|-------|
| 1. | B-00371-1 (14 volt) | .3 | -16.0 |
| 2. | B-00371-8 (14 volt) | .3 | -16.0 |
| 3. | B-00368-17 (28 volt) | .3 | -16.0 |
| 4. | B-00368-12 (28 volt) | .3 | -16.0 |

B. Electrosystems

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| CATEGORY, MANUFACTURER AND PART OR MODEL NO. | WEIGHT (Lbs) | ARM (Ins) |
|--|--------------|-----------|
|--|--------------|-----------|

| | | |
|--------------------|----|-------|
| 1. VR371 (14 volt) | .3 | -16.0 |
|--------------------|----|-------|

11. Panel Light Dimmer

A. Precision Airmotive Corporation/Lamar, Inc.

| | | |
|------------------------------|----|-------|
| 1. B-00396-1/-2 (14/28 volt) | .3 | -16.0 |
|------------------------------|----|-------|

INSTRUMENTS

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

12. Stall Warning

A. Maule

| | | |
|----------|----|-----|
| 1. 6016F | .1 | 1.5 |
|----------|----|-----|

13. Compass

A. Hamilton Instruments

| | | |
|-----------|----|------|
| 1. HI-400 | .6 | -2.0 |
|-----------|----|------|

B. Airpath

| | | |
|---------------|----|------|
| 1. C-2300 | .8 | -2.0 |
| 2. C-2300-DL | .8 | -2.0 |
| 3. C-2400-LP | .8 | -2.0 |
| 4. C-2400-L4P | .8 | -2.0 |

14. Altimeter

A. Kollsman

| | | |
|---------|-----|------|
| 1. C-12 | 1.0 | -2.0 |
| 2. C-13 | 1.0 | -2.0 |
| 3. B-11 | 1.0 | -2.0 |

B. Aeronic

| | | |
|----------------------|-----|------|
| 1. 101720-01545 | 1.0 | -2.0 |
| 2. 101720-01546 (Mb) | 1.0 | -2.0 |
| 3. 12003 | 1.0 | -2.0 |
| 4. 101720-01694 | 1.0 | -2.0 |

C. Aeritalia

| | | |
|------------|-----|------|
| 1. 16030SK | 1.2 | -2.0 |
|------------|-----|------|

D. United Instrument/Mitchell

| | | |
|---|-----|------|
| 1. 5934-1 code A68 (InHg) | 1.0 | -2.0 |
| 2. 5934-3 code A.68 (InHg) | 1.0 | -2.0 |
| 3. 5934-3 code A.84 (InHg) | 1.0 | -2.0 |
| 4. 5934-3 code A.73 (InHg) | 1.0 | -2.0 |
| 5. 5934P-1 code A83 (InHg w/Barber pole) | 1.0 | -2.0 |
| 6. 5934PM 1 code A84 (Mb w/Barber pole) | 1.0 | -2.0 |
| 7. 5934D-1 code A129 (Dual-Mb/InHg) | 1.0 | -2.0 |
| 8. 5934PD-1 code A130 Dual-Mb/InHg w/Barber pole) | 1.0 | -2.0 |
| 9. 5934M-3 code A73 (Mb) | 1.0 | -2.0 |
| 10. 5934P-3 code A83 (InHg w/Barber pole) | 1.0 | -2.0 |

E. Reporting Altimeters per Section 5.C of Optional Equipment List.

REQUIRED EQUIPMENT LIST

SERIAL NO. _____ REG. NO. _____ PROD. NO. _____

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CATEGORY, MANUFACTURER AND PART OR MODEL NO. WEIGHT (Lbs) ARM (Ins)

15. Airspeed

B. EDO-Aire/Sigma Tek, Inc.

| | | | | |
|----|--------------------|-------------|----|------|
| 1. | EA-5171-017 MAL | (MPH/KNOTS) | .6 | -1.0 |
| 2. | EA-5171-016 MAL | (KNOTS) | .6 | -1.0 |
| 3. | EA-5174-03 PTL-MAL | (TAS) | .7 | -1.0 |

16. Instrument Cluster

A. MAULE

| | | | | |
|----|-------|--|-----|------|
| 1. | 7040B | | 1.0 | -0.6 |
| 2. | 6146A | | | -0.6 |

17. Manifold Pressure/Fuel Flow

A. A.I.D.

| | | | | |
|----|-----------|--|-----|------|
| 1. | 21-1003-1 | | 1.0 | -1.5 |
|----|-----------|--|-----|------|

B. United Instruments, Inc.

| | | | | |
|----|--------------|--|-----|------|
| 1. | UI6333-H.151 | | 1.0 | -1.5 |
|----|--------------|--|-----|------|

C. Sigma-Tek

| | | | | |
|----|--------------|--|-----|------|
| 1. | 1U028-005-65 | | 1.3 | -1.5 |
|----|--------------|--|-----|------|

18. Tachometer

A. Stewart-Warner

| | | | | |
|----|---------|--|----|------|
| 1. | 551-ACR | | .8 | -1.1 |
| 2. | 551-ASJ | | .8 | -1.1 |

B. AC

| | | | | |
|----|-----------|--|----|------|
| 1. | RT-7 | | .8 | -1.1 |
| 2. | AC6412611 | | .8 | -1.1 |

C. Aerosonic

| | | | | |
|----|--------|--|----|------|
| 1. | 70-108 | | .8 | -1.1 |
|----|--------|--|----|------|

D. Mitchell

| | | | | |
|----|-------------|--|----|------|
| 1. | 98480-23 | | .8 | -1.1 |
| 2. | CD-122-5006 | | .8 | -1.1 |

E. Electronic International

| | | | | |
|----|---------------|--|----|------|
| 1. | R-1-6-G30R240 | | .6 | -1.8 |
|----|---------------|--|----|------|

21. Engine Data Management

A. JP Instruments

| | | | | |
|----|--------|--|-----|------|
| 1. | EDM900 | | 2.0 | -1.5 |
| 2. | EDM930 | | 3.0 | -1.5 |

REQUIRED EQUIPMENT LIST

SERIAL NO. _____ REG. NO. _____ PROD. NO. _____

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CATEGORY, MANUFACTURER AND PART OR MODEL NO. _____ WEIGHT (Lbs) ARM (Ins)

LANDING GEAR

22. Tires w/Tubes (2 ea.) TYPE III 4/6 PLY TO TSO C62b

| | | | |
|----|----------|------|------|
| A. | 7:00 x 6 | 23.6 | -1.0 |
| B. | 8:00 x 6 | 25.2 | -1.0 |

23. Main Wheel (2 ea.)

A. Cleveland

| | | | |
|----|---------------|------|---|
| 1. | 40-75D (Dual) | 12.8 | * |
|----|---------------|------|---|

24. Brakes - Main Wheel (2 ea.)

A. Cleveland

| | | | |
|----|---------------|-----|------|
| 1. | 30-52K (Dual) | 5.8 | -1.0 |
|----|---------------|-----|------|

25. Tailwheel

A. MAULE

| | | | |
|----|-------------|-----|-------|
| 1. | SFS-P8B-1-2 | 8.0 | 185.0 |
|----|-------------|-----|-------|

26. Tailwheel Tire (Installed on Maule Tailwheel SFS-P8B-1-2)

A. Aero Classic (Distributed by Desser Tire and Rubber Co.)

| | | | |
|----|------------------------------|-----|-------|
| 1. | 280/250-4/6 Ply (p/n 1V1514) | 9.1 | 187.4 |
|----|------------------------------|-----|-------|

SAFETY BELTS

27. Front Seat Belt & Shoulder Harness Assemblies (2 ea.)

A. AM-Safe, Inc.

| | | | |
|----|---|-----|------|
| 1. | 500661-401 | 2.6 | 36.0 |
| 2. | 500661-405 | 2.6 | 36.0 |
| 3. | 500661-413 | 2.6 | 36.0 |
| 4. | 502338-413 (R) /-417 (L) (Rotary Buckle) | 2.6 | 37.0 |
| 5. | 502338-423 (R) /-425 (L) (Rotary Buckle) | 2.5 | 37.0 |
| 6. | 3102-1-011-2396 (3-Point Shoulder Harness & Lap Belt) | 2.5 | 37.0 |
| 7. | 4098-1-021-2396 (4-Point Shoulder Harness & Lap Belt) | 2.5 | 37.0 |

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. Davis

| | | | |
|----|------------------|-----|------|
| 1. | FDC-6400-568-2/4 | 2.6 | 36.0 |
| 2. | FDC-8300-64R-080 | | 36.0 |
| 3. | FDC-8300-64L-080 | | 36.0 |

28. Rear Seat Belt (1 ea.) & Shoulder Harness/Lap Belt Assemblies (2 ea.)

A. AM-Safe, Inc.

| | | | |
|----|---|-----|-----------|
| 1. | 500661-409 (Shoulder Harness & Lap Belt) | 2.5 | 55.0/80.0 |
| 2. | 3102-1-071-2396 (3-Point Shoulder Harness & Lap Belt) | 2.5 | 55.0/80.0 |

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|--|--------------|-----------|
|--|--------------|-----------|

B. Davis

| | | |
|---------------------|-----|-----------|
| 1. FDC-6400-568-1/3 | 2.6 | 55.0/80.0 |
|---------------------|-----|-----------|

29. Cargo & Luggage Straps

A. Kine-Dyne (Cargo area "C")

| | | |
|---------------------------|----|------|
| 1. 3101003GO72-022 (Rear) | .8 | 72.0 |
|---------------------------|----|------|

B. DOT Tiedown and Lifting Equipment (Cargo area "B")

| | | |
|-----------|-----|------|
| 1. C506SE | 1.2 | 42.0 |
|-----------|-----|------|

LIGHTS

30. Navigation Lights - Wing

A. Whelen Engineering Co.

| | | |
|--|-----|------|
| 1. A650 PR (Red) (Power Supply A490,T,DF-14 or A490TCF) (14 V) | 1.8 | 17.5 |
| 2. A650 PG (Green) (Power Supply A490,T,DF-14 or A490TCF) (14 V) | 1.8 | 17.5 |
| 3. 62-A470-W (Power Supply A490,T,DF-14) (14 V) | .5 | 37.9 |
| 4. A650 PR (Red) (Power Supply A490,T,DF-28 or A490TCF) (28 V) | 1.8 | 17.5 |
| 5. A650 PG (Green) (Power Supply A490,T,DF-28 or A490TCF) (28 V) | 1.8 | 17.5 |
| 6. 01-0790725-01 (Green)/ACL (14V) | .26 | 17.5 |
| 7. 01-0790725-02 (Red)/ACL (14V) | .26 | 17.5 |
| 8. 01-0790725-11 (Green)/ACL (28V) | .26 | 17.5 |
| 9. 01-0790725-12 (Red)/ACL (28V) | .26 | 17.5 |

B. See Optional Equipment List, Section 1.A, Items 1, 2 and 5.

31. Navigation Lights - Tail

A. Grimes

| | | |
|--------------------------------|----|-------|
| 1. Type A-2064 (14 or 28 volt) | .2 | 199.0 |
|--------------------------------|----|-------|

B. Luminator Aircraft

| | | |
|--------------|----|-------|
| 1. 5107 C14B | .2 | 199.0 |
|--------------|----|-------|

C. Whelen Engineering Co.

| | | |
|---|-----|-------|
| 1. 01-0771554-02 Whelen Tail Position Light (28V) | .17 | 199.0 |
| 2. 01-0771554-12 Whelen Tail Position Light (14V) | .17 | 199.0 |

EMERGENCY LOCATION TRANSMITTERS (ELT)

32. ELT

A. ARTEX

| | | |
|------------|-----|-------|
| 1. ME-406 | 3.3 | 104.5 |
| 2. ME-406P | 3.3 | 104.5 |

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CATEGORY, MANUFACTURER AND PART OR MODEL NO. _____ WEIGHT (Lbs) ARM (Ins) _____

CONTROL CABLES

33. Control Cables

| | |
|----|--------------------------------|
| 1. | Carbon Steel, Plated |
| 2. | Corrosion Resistant Steel (SS) |