

# **PAAW**

**AIRCRAFT CORPORATION**

## AIRPLANE SUPPLEMENTAL FLIGHT MANUAL

FOR

LANDPLANE OR FLOATPLANE

CESSNA MODELS 172I, 172K, 172L, AND 172M

WITH

LYCOMING 0-320-D2J OR 0-320-E2D (AS MODIFIED PER STC SE3692SW)

MODEL NUMBER

Cooma 172L

REGISTRATION NUMBER

N4378R

SERIAL NUMBER

17260278

This Supplemental Flight Manual is F. A. A. approved material and must be in the airplane for all operations when Lycoming 0-320-D2J or 0-320-E2D (as modified per STC SE3692SW) engine is installed in accordance with STC SA2375SW. The information contained herein supplements or supersedes the information in the form of placards, markings, and manual material. For limitations, procedures and performance information not contained in this Supplemental Flight Manual consult the basic airplane placards, markings and manual material.

F. A. A. APPROVED:

*[Signature]*  
For  
Larry Andriesen, Manager  
Aircraft Certification Division  
Southwest Region  
FEDERAL AVIATION ADMINISTRATION  
Southwest Region  
Fort Worth, Texas 76101

AUG 27 1987

Date: -----

STC No. SA2375SW

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CESSNA 172I, 172K, 172L, AND 172M

**SUPPLEMENTAL FLIGHT MANUAL**

**I-----GENERAL**

1. ENGINE Lycoming O-320-D2J Or Lycoming O-320-E2D  
(As Modified Per STC SE36925H)
2. FUEL 100/130 Minimum Octane
3. PROPELLER McCauley 1C160/CTM7557  
Or  
McCauley 1C160/DTM7557
- PROPELLER McCauley 1A175/ETM8042  
(Seaplane Only) Or  
McCauley 1A175/ATM8042

**II-----LIMITATIONS**

1. ENGINE LIMITS Maximum Continuous: 150 HP - 2650 RPM  
Take-Off (5 Minutes): 160 HP - 2700 RPM
2. PROPELLER LIMITS Static RPM at maximum throttle setting:  
Not over 2420, not under 2300  
Diameter: Maximum 75.0 inches  
Minimum 74.0 inches
3. PROPELLER LIMITS Static RPM at maximum throttle setting:  
(Seaplane Only) Not over 2570, not under 2470  
Diameter: Maximum 80.0 inches  
Minimum 78.5 inches
4. ENGINE INSTRUMENT MARKINGS Tachometer:  
Green Arc 2200 - 2650 RPM  
Yellow Arc 2650 - 2700 RPM  
Redline 2700 RPM  
  
Oil Pressure:  
Redline 25 PSI  
Green Arc 60-90 PSI  
Redline 100 PSI  
  
Cylinder Head Temperature (If Installed):  
Green Arc 225 - 425 F.  
Redline 500 F.

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CESSNA 172I, 172K, 172L, AND 172M

SUPPLEMENTAL FLIGHT MANUAL

III.-----PROCEDURES

No Change

IV.-----PERFORMANCE

The performance of this airplane equipped with a Lycoming  
O-320-D2J or O-320-E2D (as modified per STC SE36925H)  
engine is equal to or better than the original F. A. A.  
approved performance

AUG 27 1987

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Weight & Balance List

Part Number: N4378Q  
 e/Model: Cessna 172L  
 Year: 1971  
 Serial Number: 17260278

Date: 9/18/2006  
 Tach: 1593.0  
 Max Weight: 2300  
 Work Order: T8322

New AC Empty Weight: 1474.0  
 New AC Empty C.G.: 39.8  
 New AC Useful Load: 826.0

Landing C.G. Range:  
 Gear Extended C.G. Range:  
 Empty Weight C.G. Range:

Weight & Balance Calculation	Tare	Weight	Arm	Moment
<b>Scale Locations</b>				
Right Main	0.0	627.00	58.20	36491.4
Left Main	0.0	623.00	58.20	36258.6
Nose	0.0	452.00	-6.80	-3073.6
Unuseable Fuel	0.0	24.00	46.00	1104.0
<b>Minus Fluids</b>				
Forward Tanks	xxxxxxx	-252.00	48.00	-12096.0

New Aircraft Values      1474.0      39.8      58684.4

Equipment	Serial	Weight	Arm	Moment	Equipment	Serial	Weight	Arm	Moment

Equipment weights above are included in New AC Empty Weight

**Muncie Aviation**  
 an employee  
 owned company  
**Company**

*Richard S. May*  
 R. Frederickson, AWR135C

Delaware County Airport / P.O. Box 1169 / Muncie, Indiana 47308 / (765) 289-7141  
 E-Mail: info@muncieaviation.com / Website: www.muncieaviation.com