

Experimental Aircraft Association, Inc.
3000 Poberezny Road
Oshkosh, WI 54901

Auto Fuel STC

FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT

(See FAA Approved Models List (AML) for approved aircraft and engines)

REGISTRATION NUMBER N3212T

SERIAL NUMBER 177-00512

This FAA Approved Flight Manual Supplement must be carried in the aircraft when the aircraft is operated using unleaded automotive gasoline or 82 UL avgas in accordance with STC No. SA01944CH. The information contained herein supplements or supersedes the basic placards and instrument markings only in those areas listed.

FAA APPROVED: Joseph C. Miess

DATE: 02 MAR 2004

REVISED: _____



LOG OF REVISIONS

| Rev. No | Revised Pages | Description of Revision | Date | FAA Approval* |
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- Approved for Manager, Chicago Aircraft Certification Office, Federal Aviation Administration, Central Region.

NOTE: All changes are indicated by a black vertical line along right margin.

SECTION I - LIMITATIONS

A. Unleaded automotive gasoline per ASTM Specification D-439 or D-4814; or 82 UL avgas per ASTM Spec. D-6227 (color purple), as applicable.

B. Placard Required

Located at each fuel filler inlet, adjacent to aviation gasoline/fuel tank capacity placard:

**THIS AIRCRAFT IS APPROVED TO USE THE
FOLLOWING UNLEADED GASOLINES:**

Automotive Gasoline 87 MIN. AKI
Per ASTM Spec. D-4814

Or 82 UL Aviation Gasoline
Per ASTM Spec. D-6227 (Color Purple)

DO NOT USE AUTOMOTIVE GASOLINE CONTAINING ALCOHOL

SECTION II - PROCEDURES

A. Normal

1. Preflight Inspection

It is the pilot-in-command's responsibility to insure that the tank sumps are drained and that the fuel strainer is drained before each flight. It is also the pilot's responsibility to take corrective action if water or any other contaminant is found when draining at those points.

2. Fueling with Unleaded Automotive Gasoline

Use the same care as when fueling with aviation fuel to insure that only contaminant-free, water-free fuel enters the tank. It is the responsibility of the pilot to insure that the fuel conforms to unleaded automotive gasoline per ASTM Spec. D-439 or D-4814; or 82 UL avgas per ASTM Spec. D-6227 (color purple), as applicable.

FAA APPROVED DATE 02 MAR 2004

3. Mixing Fuels

Aviation gasoline may be mixed with unleaded automotive gasoline or 82UL avgas. Any mixture containing unleaded automotive gasoline or 82UL avgas must be operated in accordance with the placards or precautions established in this AFM.

4. Carburetor Ice

When using unleaded automotive gasoline, the onset of carburetor ice may occur earlier under the same atmospheric conditions than when using 80/87 minimum grade aviation gasoline. There is no change in the techniques for recognizing and correcting for carburetor ice.

5. Engine Operation

Engine operation must conform to the engine manufacturer's recommendations except that fuel per this STC is approved.

6. Contamination Control

The following guidance is taken from Advisory Circular (AC) 20-43C, "Aircraft Fuel Control":

Keep fuel tanks full; water condenses on the walls of partially filled tanks and enters the fuel system. Filter all fuel entering the tank. Drain fuel sumps regularly. Periodically inspect and clean all fuel strainers (screens) and occasionally flush the carburetor bowl as recommended by the aircraft manufacturer. The best insurance against fuel problems is to practice good housekeeping in your routine maintenance and be constantly alert.

The operator is referred to this AC for more detail.

B. Emergency

No change.

SECTION III - PERFORMANCE

No Change

FAA APPROVED DATE 02 MAR 2004