

Liquid crystal display (LCD) dimming  
Dual flasher (recognition light)  
Left/right pitot heat  
Avionics dimming (Bezel buttons for radios)  
Prop heat  
Left/right fuel pump  
Position light landing light  
Instrument panel light dimming  
Ice light  
Vent defog (vent blower)  
Hi/low blower  
Stall heat  
Dimmer switch lighting (overhead switch panel switches)

*What Are the Consequences if the Condition Is Not Corrected?*

If not corrected, short circuit failure and electrical arcing of the electronic control modules could result in loss of the electrical systems components or burning of wiring insulation and cause smoke in the cockpit. Such a condition could lead to the inability to properly control the airplane.

*Is There Service Information That Applies to This Subject?*

Piper has issued the Service Bulletin No. 1132, dated June 4, 2003.

*What Are the Provisions of This Service Information?*

The service bulletin includes procedures for:

- Removing the pilot's circuit breaker panel assembly (part-number (P/N) 102228-002); the co-pilot's circuit breaker panel assembly (P/N 102228-006); the dimmer lighting module assembly (P/N 102226-002); the stall vane heat module assembly (P/N 102227-002); and the propeller heat module assembly (P/N 102227-006);
- Returning the panel assemblies and remote module parts to the manufacture for modification;
- Visually inspecting all remaining exposed wires and equipment for evidence of heat damage;
- Repairing any damage found; and
- Installing the newly modified panel assemblies and remote module parts.

**FAA's Determination and Requirements of This Proposed AD**

*What Has FAA Decided?*

We have evaluated all pertinent information and identified an unsafe condition that is likely to exist or develop on other products of this same type design. Therefore, we are proposing AD action.

*What Would This Proposed AD Require?*

This proposed AD would require you to incorporate the actions in the previously-referenced service bulletin.

*How Does the Revision to 14 CFR Part 39 Affect This Proposed AD?*

On July 10, 2002, we published a new version of 14 CFR part 39 (67 FR 47997, July 22, 2002), which governs FAA's AD system. This regulation now includes material that relates to altered products, special flight permits, and alternative methods of compliance. This material previously was included in each individual AD. Since this material is included in 14 CFR part 39, we will not include it in future AD actions.

**Costs of Compliance**

*How Many Airplanes Would This Proposed AD Impact?*

We estimate that this proposed AD affects 130 airplanes in the U.S. registry.

*What Would Be the Cost Impact of This Proposed AD on Owners/Operators of the Affected Airplanes?*

We estimate the following costs to accomplish this proposed modification:

| Labor cost                         | Parts cost                                                | Total cost per airplane | Total cost on U.S. operators |
|------------------------------------|-----------------------------------------------------------|-------------------------|------------------------------|
| 22 × \$65 per hour = \$1,430 ..... | Parts will be covered under warranty by the manufacturer. | \$1,430                 | \$1,430 × 130 = \$185,900    |

**Regulatory Findings**

*Would This Proposed AD Impact Various Entities?*

We have determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

*Would This Proposed AD Involve a Significant Rule or Regulatory Action?*

For the reasons discussed above, I certify that this proposed AD:

1. Is not a "significant regulatory action" under Executive Order 12866;
2. Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and
3. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

We prepared a summary of the costs to comply with this proposed AD and placed it in the AD Docket. You may get a copy of this summary by sending a request to us at the address listed under **ADDRESSES**. Include "AD Docket No. 2003-CE-32-AD" in your request.

**List of Subjects in 14 CFR Part 39**

Air transportation, Aircraft, Aviation safety, Safety.

**The Proposed Amendment**

Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration proposes to amend 14 CFR part 39 as follows:

**PART 39—AIRWORTHINESS DIRECTIVES**

1. The authority citation for part 39 continues to read as follows:

**Authority:** 49 U.S.C. 106(g), 40113, 44701.

**§ 39.13 [Amended]**

2. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):

**The New Piper Aircraft, Inc.:** Docket No. 2003-CE-32-AD

**When Is the Last Date I Can Submit Comments on This Proposed AD?**

(a) We must receive comments on this proposed airworthiness directive (AD) by December 9, 2003.

**What Other ADs Are Affected by This Action?**

(b) None.

**What Airplanes Are Affected by This AD?**

(c) This AD affects Model PA-46-500TP airplanes, serial numbers 4697001 through 4697140 and 4697142 through 4697153, that are certificated in any category.

**What Is the Unsafe Condition Presented in This AD?**

(d) This AD is the result of reports of smoke in the cockpit and loss of electrical system functions. We are issuing this AD to prevent short circuit failure of the electronic control modules, which could result in loss of the electrical system components or