

Absolute Solutions LLC

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FAA APPROVED FLIGHT MANUAL SUPPLEMENT

for the

Absolute Solutions LLC Gear Warning upgrade

as installed in

PIPER PA-28R-200

Registration number:

Serial number:

This document serves as an FAA approved Airplane Flight Manual Supplement when the Absolute Solutions LLC Gear Warning upgrade is installed in accordance with Supplemental Type Certificate SA12195SE. This Document must be incorporated into the FAA approved airplane flight manual.

The information contained herein supplements the information in the FAA Approved Airplane Flight Manual. For limitations, procedures loading and performance information not contained in this document, refer to the FAA Approved Airplane Flight Manual, markings, or placards.

FAA APPROVED BY: _____ (For)

Manager, Flight Test & Human Factors Branch, AIR-710
Federal Aviation Administration

DATE: 3 October 2025

AFMS, Absolute Solutions LLC
Gear Warning Upgrade
FAA APPROVED

GWUPA28-AFMS-000 Rev. IR

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LOG OF REVISIONS				
Revision number	Date	Number	Description	FAA Approved
IR	10/3/25	All	Complete Supplement	See page (i)

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Section 1. General

1.1 Absolute Solutions LLC Gear Warning Upgrade

The Absolute Solutions LLC Gear Warning upgrade is a system that alerts the pilot that a potentially unsafe gear condition exists. This system does not rely on the standard throttle position system, rather it utilizes a manifold pressure switch to achieve maximum consistency and accuracy of the gear warning alert.

Section 2. Limitations

NO CHANGE

Section 3. Emergency procedures

NO CHANGE

Section 4. Normal procedures

NO CHANGE

Section 5. Performance

NO CHANGE

Section 6. Weight and Balance

NO CHANGE

Section 7. System description

NO CHANGE

Section 8. Handling, Servicing and Maintenance

NO CHANGE

Section 9. Supplements

NO CHANGE

Section 10. Safety and operational tips

10.1 Absolute Solutions LLC Gear Warning Upgrade operation

A vacuum switch incorporated in the engine manifold pressure sense line, closes when engine manifold pressure drops below 14" HG. When the switch closes, it triggers a voltage signal to a relay installed under the instrument panel. The relay then powers the gear horn which operates at a frequency of 180 beeps/min, alerting the operator if:

- In flight, engine manifold pressure is reduced to approximately 14" HG or below and the gear selector is not in the DOWN position.
- On the ground, when the master switch is on and the gear selector is in the UP position.

All other operation of factory gear warning systems and options such as backup extender, are unaffected by this upgrade. Additional factory system information can be found in the factory AFMS/POH.

