

STC SA02760SE

Absolute Solutions LLC

13565 S Carus Rd.

Oregon City OR, 97045

DOCUMENT NUMBER: ASGH-IM-000

TITLE: Gear Horn Upgrade
Installation manual

REVISION: 1

DATED: 1/8/2026

REVISIONS

Revision Level	Revision Date	Reason
IR	4/21/2022	Initial Revision
1	1/8/2026	Section 2. Approved configurations;

TABLE OF CONTENTS

REVISIONS.....(i)

1. INTRODUCTION.....3

2. APPROVED CONFIGURATIONS.....3

3. GENERAL SPECIFICATIONS.....4

4. INSTALLATION.....5

1.0 INTRODUCTION

This document provides the FAA-approved installation instructions for the installation of Absolute Solutions LLC Gear Horn Upgrade in accordance with STC SA02760SE on eligible aircraft models.

The Absolute Solutions Gear Horn Upgrade provides a reliable alternative factory gear horn. The installation is a simple removal of the gear horn flasher, and replacement of the gear horn. The gear horn is mounted to a supplied bracket which utilizes existing mounting holes of the original gear horn.

The horn utilizes existing power wire from original horn and requires a ground wire to be routed to a suitable location.

The gear horn emits loud beeps at a frequency of 180/min.

2.0 APPROVED CONFIGURATIONS

The Absolute Solutions LLC Gear Horn Upgrade is eligible for installation on the following aircraft:

Make	Model	SN
Piper	PA-28R-200	28R-7235193 and up
Piper	PA-34-220T	34-8133001 through 34-8633031 and 3433001 through 3333172 (14v bus).
Piper	PA-44-180	ALL (Excluding factory equipped Avidyne Entegra and G1000 models)
Piper	PA-44-180T	ALL (Excluding factory equipped Avidyne Entegra and G1000 models)

3.0 GENERAL SPECIFICATIONS

Kit Contents

PA-44-180, PA-44-180T

Nomenclature	Part number	Quantity
Gear Horn	AS-GHBA-1	1
Gear Horn Mount Hardware		
Nut	AN340-8	2
Washer	MS3533-38	2
Screw	MS27039-0807	2
Supplemental Wiring Hardware		
Ring Terminal	36154	1
Connector, Male MATE N LOK	1-480349-0	1
Connector, Female MATE N LOK	1-480350-0	1
Pin	60618-1	1
Socket	60617-1	1
Environmental Splice	D-436-37	1
Cable tie	T18L	5
Wire	M22759/16-22-9	2'

PA-34-220T

Nomenclature	Part number	Quantity
Gear Horn	AS-GHBA-1	1
Gear Horn Mount Hardware		
Nut	AN340-8	1
Washer	MS3533-38	2
Screw	MS27039-0807	1
Supplemental Wiring Hardware		
Ring Terminal	36154	1
Connector, Male MATE N LOK	1-480349-0	1
Connector, Female MATE N LOK	1-480350-0	1
Pin	60618-1	1
Socket	60617-1	1
Cable tie	T18L	5

PA-28R-200

Nomenclature	Part number	Quantity
Gear Horn	AS-GHBA-1	1
Gear Horn Mount Hardware		
Nut	AN340-8	2
Washer	MS3533-38	2
Screw	MS27039-0807	2
Supplemental Wiring Hardware		
Connector, Male MATE N LOK	1-480318-1	1
Connector, Female MATE N LOK	1-480319-1	1
Pin	60618-1	2
Socket	60617-1	2
Cable tie	T18L	5

4.0 INSTALLATION

It is the responsibility of the installer to ensure modifications made to accommodate this system do not alter the operation of any existing original or aftermarket systems. Refer to AC43.13-1B for standard wiring installation practices.

Special tools:

Wire insulation Stripper

Pin/Socket crimper

Environmental splice crimper (such as DMC GMT232)

4.1 PA-44-180 installation

The Gear Horn and supplied bracket will be mounted utilizing the existing gear warning horn mounting holes.

1. Disconnect and remove existing gear warning horn and flasher assembly.
2. Using supplied hardware, install new horn and bracket to existing mounting holes with wire end of horn assembly facing left.
3. Refer to Figure 1-1 example wiring diagram. Connect existing power wire for flasher to red horn power wire using supplied connector.
4. Find a suitable ground point, ensure it is clean. Route and secure black ground wire from horn to the ground point. The ground wire can be lengthened with additional M22759/16-22 wire as required.

5. Secure and ty wrap wiring as required to ensure no interference with any other systems.
6. Ensure minimum .175" clearance between gear horn bracket and flight control chains, See figure 1-2.
7. Perform operational check of horn utilizing a method outlined in aircraft manufacturer maintenance manual 100 hour check list.

WARNING

Ensure Gear horn does not interfere with any flight controls

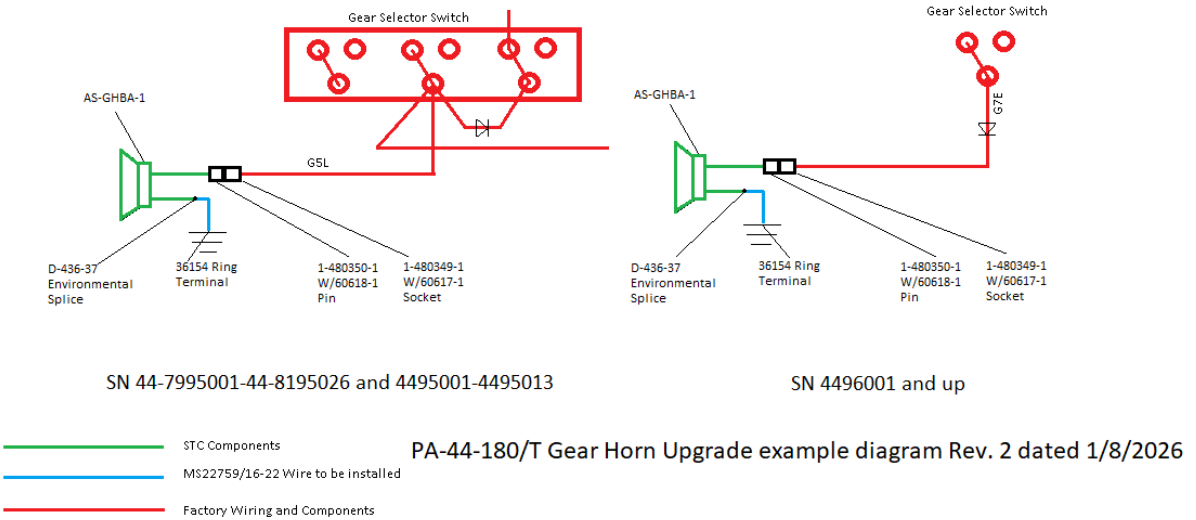


Figure 1-1. PA-44-180/T example diagram

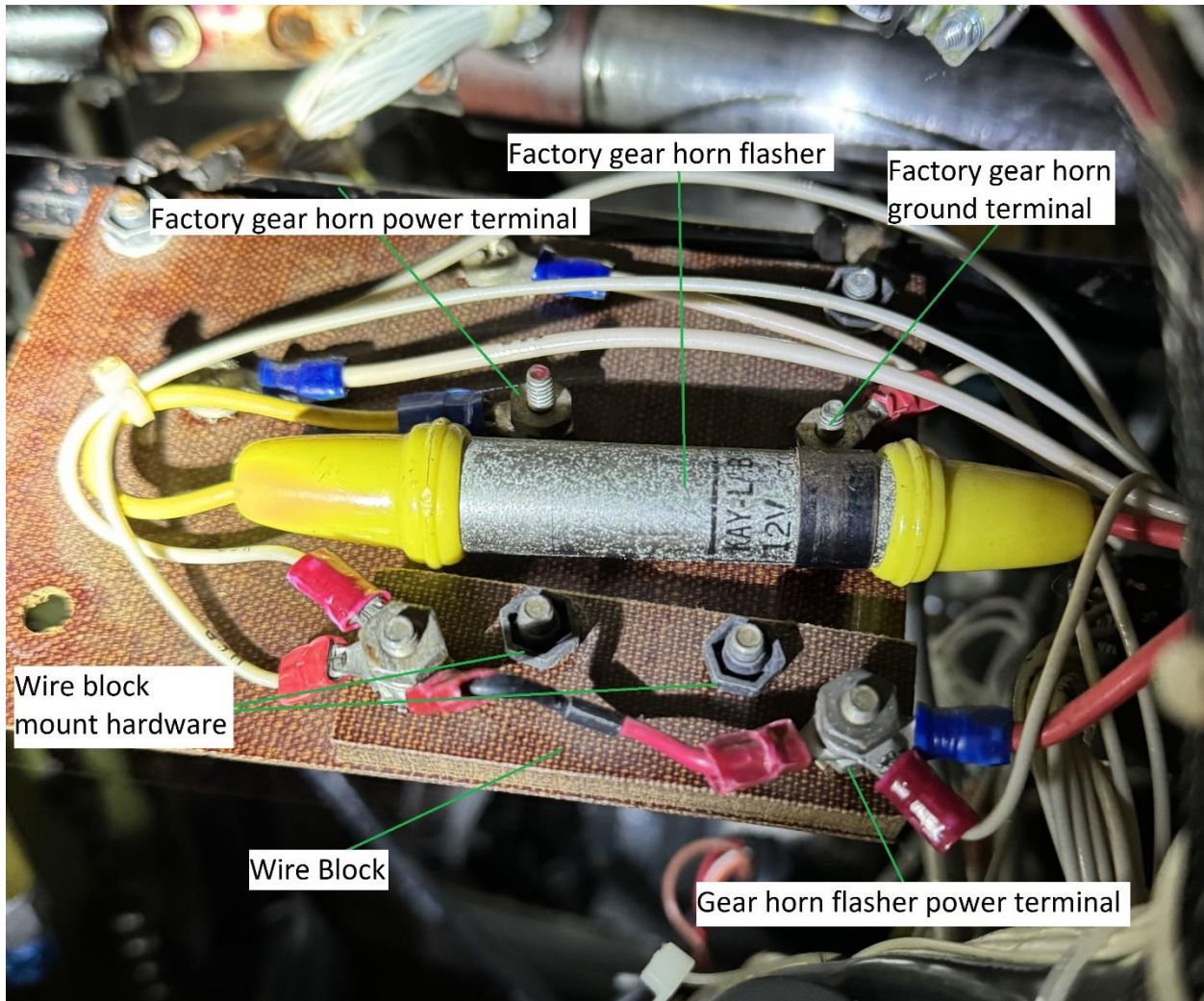


Figure 2-1. PA-34 factory gear horn installation and wiring

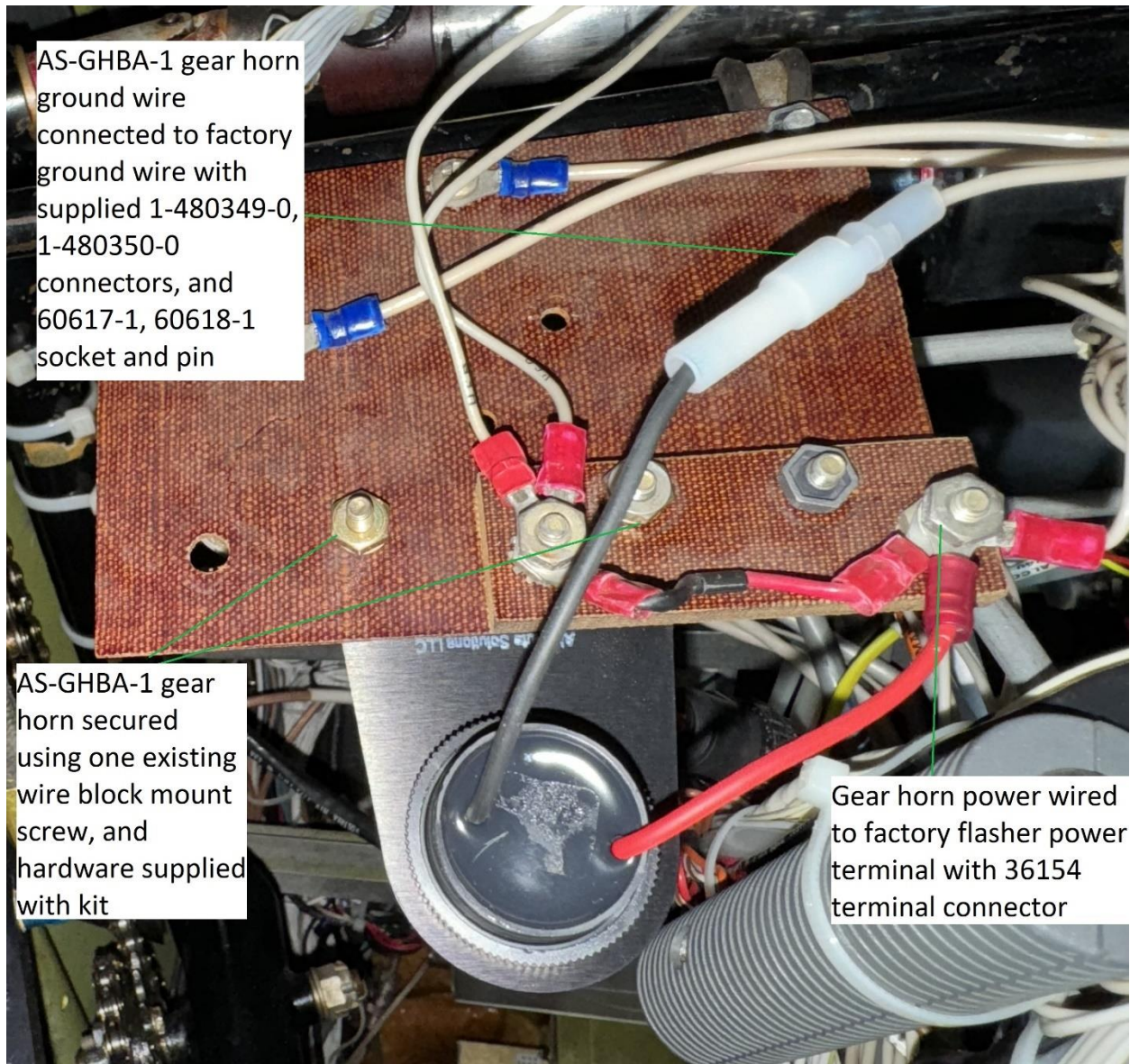
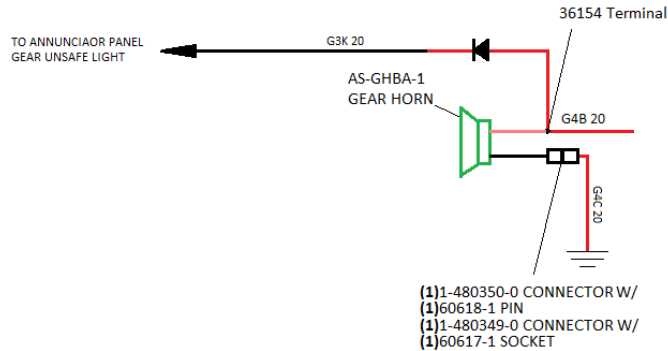


Figure 2-2. PA-34 AS-GHBA-1 gear horn installed



— STC COMPONENTS
 — FACTORY WIRING

PA-34-220T Gear Horn Upgrade example diagram Rev. IR dated 1/8/2026
 SN 34-8133001-34-8633031 and 3433001-3448000

Figure 2-3. PA-34-220T example diagram

4.3 PA-28R-200 Installation

Note:

The Gear Horn and supplied bracket will be mounted utilizing supplied hardware to the factory horn holder. Due to various configurations and aftermarket equipment, the gear horn may not be in its factory location.

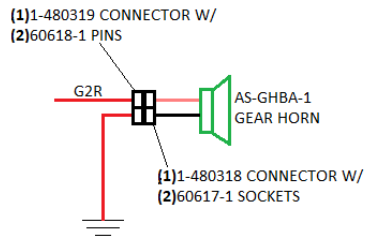
1. See Figure 3-1. Locate and remove factory gear horn PN 565-288 from factory horn holder. For aircraft SN 28R-7635001 or higher, remove gear horn flasher. Retain factory wires.
2. See Figure 3-2. Install AS-GHBA-1 gear horn with MS20739-0807 screws, MS35333-38 lock washers and AN340-8 nuts. Ensure supplied lock washers are installed under each nut.
3. See wiring diagram in Figure 3-3. Using supplied hardware, wire gear horn to factory gear horn wiring.
4. Use cable ties to secure wiring as required. Use standard installation practices referenced in AC 43.13-1B Ch. 11.
5. Perform operational check of horn utilizing a method outlined in aircraft manufacturer maintenance manual 100 hour check list.



Figure 3-1. Factory gear horn.



Figure 3-2. AS-GHBA-1 gear horn installed.



— STC COMPONENTS
— FACTORY WIRING

PA-28R-200 Gear Horn Upgrade example diagram Rev. IR dated 1/8/2026
 SN 28R-7235193

Figure 3-3. PA-28R-200 example diagram

4.4 Removal Information

Follow sections 4.1-4.3 in reverse order as required to facilitate component removal.