

Service Bulletin

MODEL(S)	4300 Series
PART NUMBER(S)	4300-()
DESCRIPTION	Electric Attitude Indicator with Battery Backup
TOPIC	Backup Battery Modification (“MOD”) 1
PURPOSE	Miscellaneous operational enhancements
RELEASE DATE	July 25, 2018

APPLICABILITY

This service bulletin is applicable to 4300 Series Electric Attitude Indicators manufactured by Mid-Continent Instruments and Avionics. It applies to all products within the 4300-() series that have backup batteries. Units and batteries with this modification are available for sale from the manufacturer.

PURPOSE

This modification addresses an update to new battery packs for the 4300 Series Electric Attitude Indicator (also referred to as the “Lifesaver” gyro).

EFFECTIVITY

4300 Series Electric Attitude Indicators units in the field can be updated to the 9015607 MOD 1 battery pack, but are not required to do so for continued airworthiness.

In accordance with this Service Bulletin, all backup batteries, part number 9015607, marked as MOD 1, including those newly manufactured by Mid-Continent Instruments and Avionics shall include the changes as described herewith.

DESCRIPTION

The following list describes the changes associated with the 9015607 battery pack.

1. Cell Type
Cell type has been changed from sealed lead acid (SLA) to nickel metal hydride (NiMH) for MOD 1 batteries.
2. Battery Backup Time
MOD 1 batteries provide equal or greater capacity, providing one hour (nominally) of backup time for the 4300-XXX Series Electric Attitude Indicator.
3. Identification
“MOD 1” will be marked out on the battery pack nameplate.

ESTIMATED MANPOWER

Approximately 15 minutes.

APPROVALS

FAA and TSO approval not affected.

WEIGHT AND BALANCE

Battery weight has been reduced by 4.5 ounces. Total weight of the 4300 with battery changes from 3.7 to 3.4 pounds (1.68 to 1.54 kg). Refer to Installation Manual 9015762 for specific changes to the center of gravity (CG) as related to MOD1 of the sealed rechargeable battery. CG changes do not affect the current qualification of the unit and are considered to have negligible impact if installed as described in the Installation Manual.

ELECTRICAL LOAD DATA

No change

CERTIFICATION

This Service Bulletin represents a minor change and therefore does not affect the previously approved Technical Standard Order Authorization (TSOA) of the 4300.

OTHER PUBLICATIONS AFFECTED

Mid-Continent Installation Manual and Operating Instructions, part number 9015762, Revision L or later, includes information associated with this Service Bulletin.

ACCOMPLISHMENT INSTRUCTIONS

Changes associated with this Service Bulletin apply to factory-new product provided by Mid-Continent Instruments and Avionics but can also be field upgraded per instructions below:

1. Refer to the 4300-XXX Installation Manual and Operating Instructions as needed.
2. Disconnect existing standby battery pack from the 4300 Attitude Indicator by unplugging battery pack connector.
3. Remove 4 mounting screws holding battery pack to 4300 Attitude Indicator and properly dispose/recycle battery in accordance with state and local regulations.
4. Attach new battery assembly 9015607 MOD1 to 4300 Attitude Indicator with 4 mounting screws previously used for existing battery pack.
5. Connect 2 pin battery connector to mating connector at bottom rear of 4300 Attitude Indicator.