



Revisions				
ECO	Rev.	Description	Date	Approved
3470	A	Dwg title was "Battery Assy". Move 9015466 and 9015608 to 9015813. Add 9015812. Add all notes.	10/7/03	JBR/ScH
3568	B	Add 9015832 Cap.	11/18/03	JBR/ScH
4501	C	Add cover to views. 1.93" height was 1.90". Flange thickness was 1/32". Update title block.	12/21/05	BAW/ScH
5643	D	Change charging and capacity test instructions to match install manual.	9/12/11	KT/MKN

Logo and company name have been changed in title block only. No functional or technical changes have been made. Revision remains unchanged.

Note:

- Recommended replacement interval for the standby battery (P/N 9015607) is 3-years after the date of manufacture listed on the nameplate. The battery can be replaced by the user if desired. The standby battery contains lead. Recycle the battery in accordance with state and local regulations.
- The standby battery should be kept charged by one of the following methods:
  - Float Charging (Continuous): Disconnect the battery from the indicator. Connect the battery to a constant voltage source, pin #1 positive, of 20.4 to 20.6 VDC continuously.
  - Routine Charging (Any given method, every 3 months minimum):
    - Plug the battery into the 4300 Electric Attitude Indicator. Run the unit overnight (approx. 15 hours) at the rated voltage.
    - Disconnect the battery from the 4300 Indicator. Connect the battery to a constant voltage source (battery plug pin 1 red wire = positive) of 21.6 to 22.1 VDC with a current limit of 0.1 ampere maximum. After the first of: a) eight hours, or b) when the charging current drops to approximately 5mA, the battery is fully charged.
    - Charge the battery to Mid-Continent Instruments Battery Charger (P/N 36029) per its instructions.
- A full battery capacity test must be performed at least on an annual basis, as well as any time there may be a question about battery performance (life).
 

Full Battery Capacity Test:

  - Disconnect battery pack from the 4300 Attitude Indicator.
  - Ensure the battery is completely charged and at or near normal room temperatures (20-25°C). (Ref. Sect. 2.6.2)
  - Connect the battery to a load of 90 ohms (rated for 10 watts) for 60 minutes while monitoring the battery voltage level.
    - If the battery voltage is above 15.0 volts at the end of the 60-minute battery capacity test, the battery should be capable of continued use after recharging is complete.
    - If the battery voltage drops below 15 volts before the end of the 60-minute test period while under load, the battery pack is nearing the end of its service life and should be replaced.
  - Recharge the battery pack immediately. WARNING: The battery may be permanently damaged if it is left in a discharged state. Recharge a discharged battery as soon as possible and maintain with a float charge for maximum battery life.

Item	Qty	Part Number	Description
1	1	9015813	Battery Assembly
2	1	9015721	Nameplate, Battery
3	1	9015812	Decal, Battery Disconnect
4	1	9015832	Cap, Electrical Plug

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.  
TOLERANCE:  
FRACTIONAL=±1/64  
.XX=±0.015  
.XXX=±0.005  
.XXXX=±0.002  
ANGULAR=±0.5°  
CONCENTRICITY: 0.005 TIR  
BREAK ALL SHARP EDGES  
THREADS PER MIL-S-7742

DRAWN:  
N. Kow  
3/20/03  
APPROVED:  
J. Reed  
8/27/03

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TITLE:  
**Standby Battery**  
PART NUMBER:  
**9015607**  
SCALE: None      DO NOT SCALE THIS DRAWING      SHEET 1 of 1