MidContinent™
INSTRUMENTS+AVIONICS
Wichita, Kansas USA

# Service Information Letter

SIL 3300-XX-01
REV: Original

**Electric Directional Gyro**
3300-xx Series
Field Calibration Procedure

## 1. PLANNING INFORMATION

A. This service information is applicable to the 3300-xx Series Electric Directional Gyro manufactured by Mid-Continent Instrument Co., Inc.

B. Reason
To provide a properly rated instrument facility field calibration procedures for the Electric Directional Gyro.

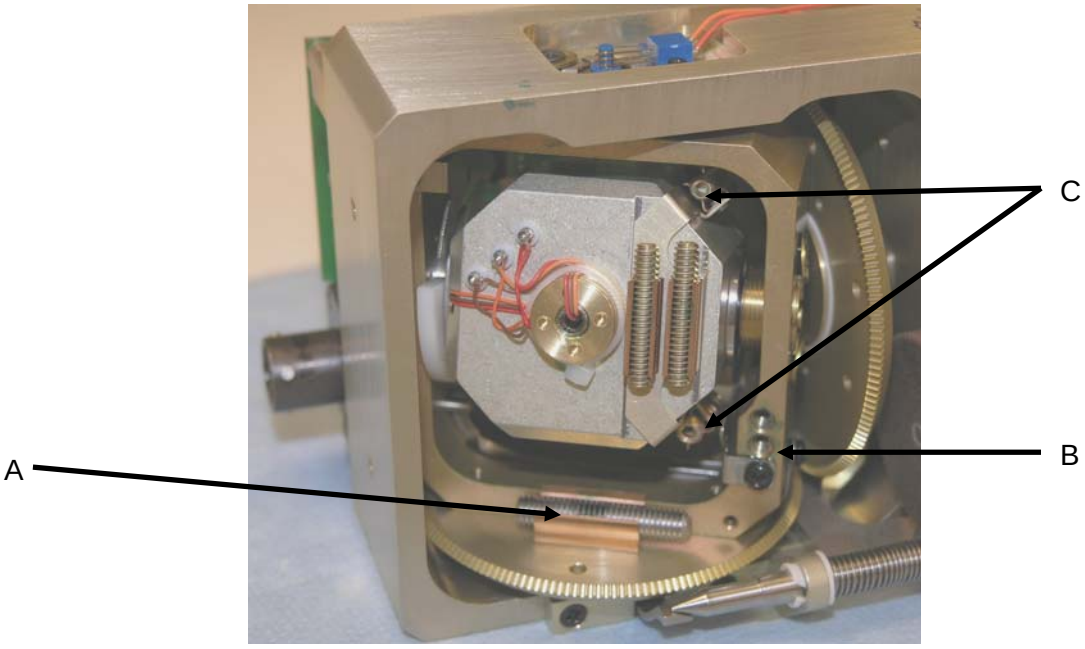
## 2. ACCOMPLISHMENT STEPS

A. Test unit in accordance with TS336 and record results on TDS336.

B. If calibration is required, remove cover from the unit.

C. Check the outer gimbal balance. If needed there are two balance steps to accomplish.
   1) Balance the outer gimbal in the direction of the large balance screws (A) on the bevel gear. To achieve a balance, 10-32x½ inch screws may be used in place of the 10-32x1 screws on the bevel gear.
   2) Balance the outer gimbal in the other direction using the 6-32 balance screws (B) in the outer gimbal. When balancing try to adjust the screw position so that both screws are protruding slightly from the gimbal. This is helpful for applying Glyptol to secure the balance screws.

D. Final calibration of the unit is accomplished by moving the horizontal balance screws (C) on the inner gimbal as necessary.




E. Test the unit per TDS336.

F. If correct calibration is achieved, add a small amount of Glyptol to each balance screw that has been adjusted.

G. Re-install the unit cover.

## 3. MATERIAL

| Part Number | Description | Quantity |
|---|---|---|
| AN565A6-H8 | Screw, Set 6-32x1/2 | As needed |
| AN565A6-H12 | Screw, Set 6-32x3/4 | As needed |
| Shop supply | Glyptol, 7526F | As needed |
| 8017360 | Tape, 1/2in, Acetate Cloth, Black | As needed |
| 9015336 | Screw, Set, 10-32x1/2 | As needed |
| 9016009 | Screw, Set, 10-32x1 | As needed |

## 4. OTHER PUBLICATIONS

TS336 MINIMUM PERFORMANCE SPECIFICATION
TDS336 TEST DATA SHEET