

Service Bulletin

SB 4305-150-03

REMOTE DIRECTIONAL GYRO

4305-150 Series

Modification 3

Provides increased protection from radio frequency fields

1. PLANNING INFORMATION

A. Effectivity

This service bulletin is applicable to 4305-150 Series Remote Directional Gyro manufactured by the General Design Division of Mid-Continent Instrument Corp, Inc. It applies to units manufactured with serial numbers prior to 09222809.

All 4305-150 units manufactured after serial number 09222809 have this service bulletin incorporated during the manufacturing process.

B. Reason

1. Some installations within close proximity of the aircraft's transmitting antenna may experience a false gyro-invalid indication during radio transmissions. The directional indication functionality and mechanical operation of the unit are unaffected.
2. The false indication is temporary and transitory with radio transmissions.
3. This service bulletin is optional based on individual owner request. All units returned to the factory for service will have this service bulletin performed.

C. Description

This service bulletin applies to the Remote Directional Gyro assembly's braided cable from the upper housing to the lower base. A new, shortened cable is used, and its the lower end is attached to the adjacent shock mount assembly.

D. Approval

FAA and TSO approval not affected

E. Manpower

This service bulletin may be accomplished and unit tested in approximately 0.25 man-hours.

F. Material – Cost and Availability

The parts and materials necessary to accomplish this service bulletin are available from Mid-Continent Instruments. Refer to Section 3, Material Information, for part numbers. Check for current pricing.

G. Tooling

No special tooling is required to perform this service bulletin.

H. Weight and Balance

No change.

I. Electrical load data

No change.

J. Other Publications affected

None.

2. ACCOMPLISHMENT INSTRUCTIONS

- A. Disconnect the 3.5 inch long, braided cable from the upper housing by removing the 6-32 x ¼ screw and lock washer. The screw and washer may be reused.

REMEMBER:

Remember that all gyro assemblies contain precision bearings and are easily damaged by rough handling. Always set the gyro assembly on a padded surface and avoid all shock impacts to the gyro. Handle the gyro assembly like eggs!

- B. Remove one 6-32 x ¼ screw securing the shock mount closest to the housing attachment point for the braid. The housing may have to be moved gently on its mounts to extract the screw. A small Philips screwdriver will help. Reuse this screw as well. The long braid need not be retained.
- C. Install one end of the new braided cable (P/N 9011651-10) at the shock mount with a 6-32 x ¼ screw. Take care to properly thread the screw into the base unit. The upper housing may have to be gently moved on its mounts to install and tighten the screw. Dress the terminal as shown in figure 1.



Figure 1.

- D. Install the other end of the cable to the side of the housing with a 6-32 x ¼ screw and lock washer. Dress as shown to minimize pinching of the braid between the base and the cable's attached terminal.
- E. Mark out **3** in the modification label.

3. MATERIAL INFORMATION

A. Parts

P/N	Qty.	Description
9011651-10	1	Cable assembly