

# Service Information Letter

SIL 4300-XXX-01  
REV. B

## **Electric Attitude Indicator**

4300-3XX, -4XX, -5XX Series

Calibration for required Aircraft Panel tilt.

### 1. PLANNING INFORMATION

#### A. Effectivity

This service information is applicable to the 4300-XXX Series Electric Attitude Indicators manufactured by Mid-Continent Instrument Co., Inc.

#### B. Reason

To aid in re-adjusting the Electric Attitude Indicators for different Instrument Panel tilts.

#### C. Description

This information letter includes the instructions, special tooling, and parts required to change the calibration of the Electric Attitude Indicators to match the Aircraft Instrument Panel tilt.

#### NOTE:

The correct Right Pivot configuration for the desired panel tilt should be verified before proceeding. (See Material list and Figure 1)

#### D. Approval

FAA and TSO approval not affected.

#### E. Manpower

Approximately 1.5 hours.

#### F. Material

Part Number	Description
8017360	½" Black Acetate Cloth Tape, Approx 14" long
36025-1	Options Decal
G7526F	Glyptal
9015366	Low Angle Right Pivot for 0° to 15° panel tilts
9015642	High Angle Right Pivot for 5° to 20° panel tilts

#### G. Special Tooling – See Figure 2 for illustration.

Gyro Fixture Part Number TG-1.

3" Adapter Plate available with the TG-1 Fixture.

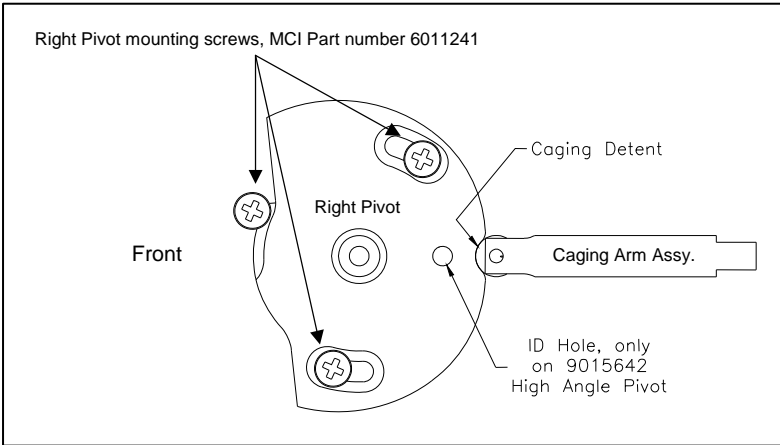
Tilt Block, Part Number TB-0.

Angle Tilt Block. See Table 1 for Part Numbers.

- H. Weight and Balance  
No change.
- I. Electrical load data  
No change.
- J. Other Publications  
Minimum Performance Specification TS235.

## 2. ACCOMPLISHMENT INSTRUCTIONS

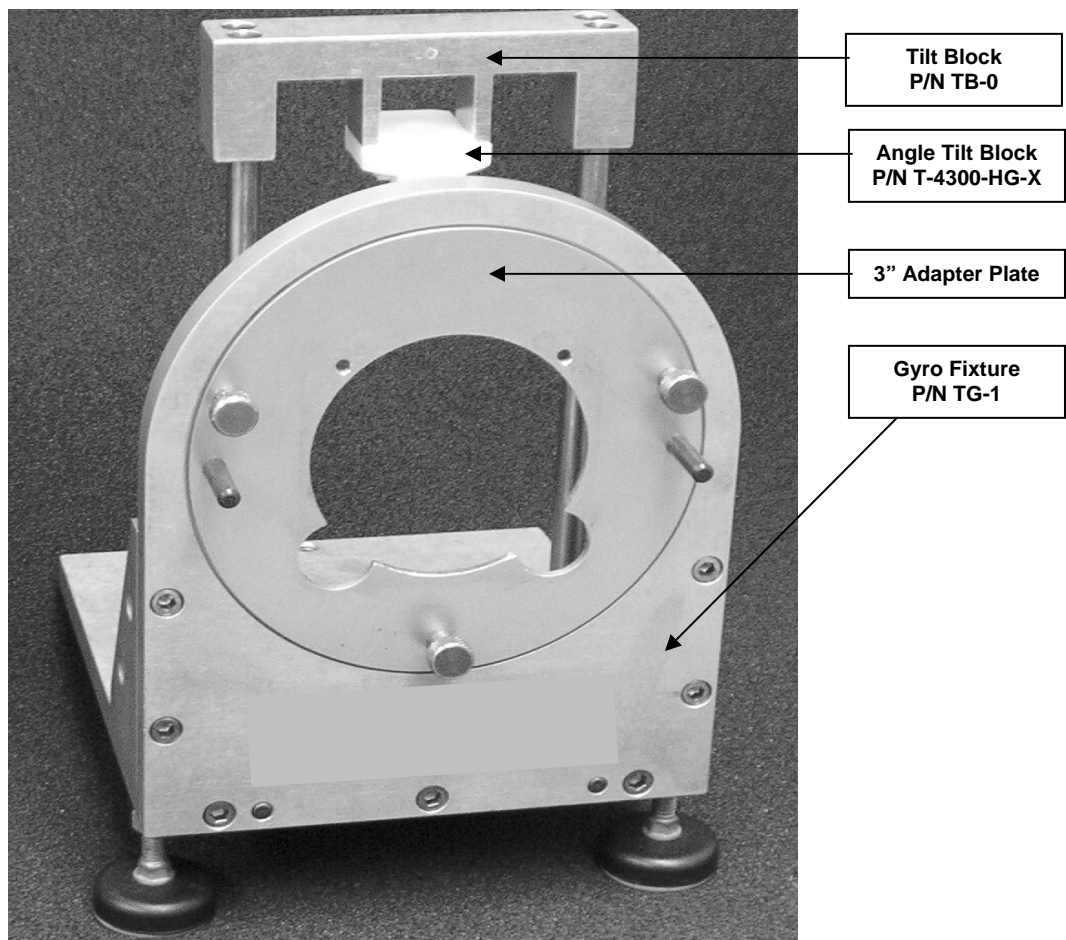
- A. Remove the Gyro Cover.
- B. Install the Gyro in the Gyro Fixture (TG-1).
- C. Loosen the 3 Right Pivot mounting screws (see Figure 1).
- D. Place the appropriate Angle Tilt Block (T4300-HG-X) onto the Tilt Block (TB-0) See Figure 2.
- E. Using the front holes, push the Tilt Block (TB-0) down on the Gyro Fixture Guides to carefully capture the Rotor Housing of the Gyro.
- F. Pull the Caging Knob, making sure the Caging Arm Assembly Roller fully seats into the detent position on the Right Pivot (See Figure 1). While holding the Caging Knob full out, tighten the top and bottom Right Pivot mounting screws.
- G. Remove the Tilt Block (TB-0) from the Gyro Fixture (TG-1).
- H. Turn the Rotor Housing to expose the front Right Pivot mounting screw & tighten.
- I. Place the Gyro on a test stand with the desired tilt.
- J. Calibrate the pendulosity, settling, and erection rates as necessary per Minimum Performance Specification TS235.
- K. Glyptal all screws that were adjusted.
- L. Install the Gyro Cover and apply the Black Acetate Cloth Tape around the Case/Bezel seam.
- M. Perform the Final Functional Test in accordance with Minimum Performance Specification TS235.
- N. Remove the old Option Decal and replace with the new, completed Options Decal.



**Figure 1**

Aircraft Panel Tilt	Angle Tilt Block Part Number
0°	T-4300-HG-1
5°	T-4300-HG-4
6°	T-4300-HG-5
7.5°	T-4300-HG-6.5
8°	T-4300-HG-7
10°	T-4300-HG-9
11°	T-4300-HG-10
12°	T-4300-HG-11
14°	T-4300-HG-13
15°	T-4300-HG-14
20°	T-4300-HG-19

**Table 1**



**Figure 2**