

GD023 Instruction of Directional gyro-electric

1. FUNCTION: Indicating heading angle of a small aircraft. It accords with TSO-C5d.

2. SPECIFICATIONS

OPERATING TEMPERATURE RANGE.....	-30℃ (-22℉)~55℃(120℉)
FLIGHT ALTITUDE... ..	4600m.(15000 ft.)
MAXIMUM ALLOWED VIBRATION (peak to peak)	5~50Hz ope 0.5 mm amplitude (.020 inches)
OPERATING POWER.....	DC 14V
WORKING RANGE.	Indicating heading angle in 360°
WORKING CURRENT.....	Not more than 1.5A
RESISTANCE.....	In normal condition not less than 20 MΩ
GYROWHEEL RPM.	Not less than 20000/ min.
FROM START TO RUNNING SPEED MAX.	3 min.
MOMENTUM OF INERTIA.....	450 gr.cm ²
ANGULAR MOMENTUM.....	0.94×10 ⁶ grcm ² /s
WEIGHT.....	1.7kg. (3.7lbs.)

3. INSTALLATION AND USING

- (1) Assemble the instrument on a shock-resistant panel by three special screws so it is not subject to exceeding vibrations. Dimensions of cutout to be made in instrument panel for installation are shown in Fig. attached. Do not install instrument with screws longer than 15.87 mm.(5/8”).
- (2) Before use the instrument, checking and be sure it is qualified: Connect the instrument to the power supply according to relative terminal show on noticeboard of gyro and alarm flag should be disappeared. Push the heading-given pin in and turn it while the dial shall be turned with it . When direction of aircraft is changing , the gyro dial shall be turning following .
- (3) After every 50hs (or 6 month) working time, check up if the fixed screws are loose and be sure the gyro is working properly. Clean the gyro’s glass with silk or chammy.

4. THE SOLUTION OF MALFUNCTION WHILE INSTALLING

Malfunction Mode	Debugging Ways
After connected to power supply, the alarm flag does not disappear.	Check if the voltage of cable on board is properly.
The heading-given pin is locked and the dial Can not be turned when push it in and turning.	Turning the heading-given pin before push , then push it into the end while turning again .

5. GUARANTEE

The gyro can be repaired by manufacturer when the following items are satisfied.

To use according to the INSTRUCTION correctly. Describe in details in the WORKING RECORD when the malfunction can not be solved. Send the gyro packed by original material back to your dealer with WORKING RECORD.

GD023 WORKING RECORD OF DIRECTIONAL GYRO

Gyro No.:

Purchase Time		
Unsealing Time		
Checking Record Before Using	1. The alarm flag disappear after connect to power supply. <input type="checkbox"/> Yes <input type="checkbox"/> No 2. The dial is turning when heading-given pin has been pushed in and turned. <input type="checkbox"/> Yes <input type="checkbox"/> No 3. The dial is turning when aircraft change its direction. <input type="checkbox"/> Yes <input type="checkbox"/> No	
Installing Time		
Malfunction Happened Time		
Description Of Malfunction		

As the malfunction happens, fill in the form in details and you will be offered the best service.

OUTLINE AND INSTALLATION DIMENSIONS OF DIRECTIONAL GYRO-ELECTRIC

