

GH025 Instruction of Horizon Gyro-Electric

1. FUNCTION:	Indicating attitude of a small aircraft. It accords with TSO-C4c.
2. SPECIFICATIONS:	
OPERATING TEMPERATURE.....	-30°C (-22 °F) to 50°C (120°F)
FLIGHT ALTITUDE	4600m.(15000 ft.)
MAXIMUM ALLOWED VIBRATION.....	5-50Hz ope 0.5 mm amplitude (.020 inches)
OPERATING POWER.....	DC 14V.
WORKING RANGE:.....	Banking 360° , Pitching ±80°
ACCURACY.....	The indicating error should be not more than 1°
WORKING CURRENT.....	Not more than 0.8A
RESISTANCE.....	In normal condition not less than 20 MΩ
GYROWHEEL RPM	Not less than 20000/ min
MOMENTUM OF INERTIA	525 gr.cm ²
ANGULAR MOMENTUM.....	1.1×10 ⁶ grcm ² /s
FROM START TO RUNNING SPEED MAX	3 min.
WEIGHT.....	1.2kg. (2.65lbs.)

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:
The gyro is not seize up. Pulling the pin of gyro and make the gyro go back to benchmark from any attitude and lock-in it. Connect the instrument to the power supply according to relative terminal show on notice board of gyro, inside should be illumining by red light. After 3 min. the lock is released and alarm flag disappear. The instrument can indicate airplane's bank and pitch angles when lock was released for 3 min.
- (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
Without illumination .	Check if the voltage of cable on board is properly.
The alarm flag does not disappear.	Check the voltage of cable on board and release lock 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.

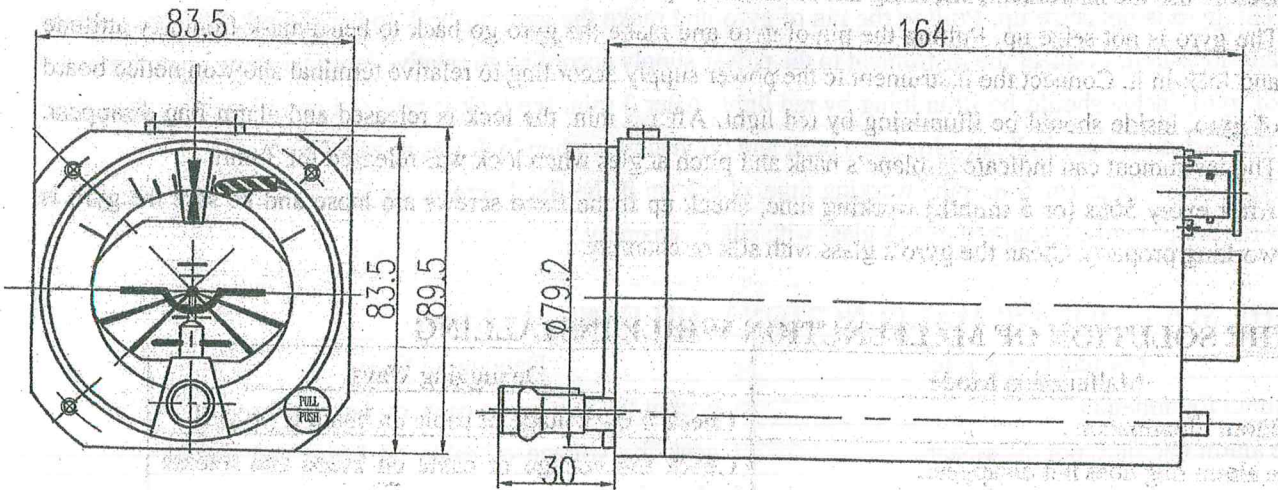
WORKING RECORD OF HORIZEN GYRO-ELECTRIC

Gyro No.:

Purchase Time		
Unsealing Time		
Checking Record Before Using	1. Turning knob of horizon gyro, the small plane moves smoothly. <input type="checkbox"/> Yes <input type="checkbox"/> No 2. Pulling pin of horizon gyro, the gyro can be turned back to benchmark from any attitude and locked. <input type="checkbox"/> Yes <input type="checkbox"/> No 3. Illumination is normally. <input type="checkbox"/> Yes <input type="checkbox"/> No 4. Alarm flag disappear when lock is released. <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 OF HORIZON GYRO-ELECTRIC



INSTALLATION DIMENSIONS

