### GD031 Instruction of Directional Gyro-Air

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

#### 2. SPECIFICATIONS:

OPERATING TEMPE RATURE $-20 ^{\circ}\text{C}(-4 ^{\circ}\text{F}) \sim 55 ^{\circ}\text{C}(120 ^{\circ}\text{F});$
RELATIVE HUMIDITY
FLIGHT ALTITUDE
MAXIMUM ALLOWED VIBRKTION (peak to peak) 5~50 Hz ope 0.5 mm amplitude(.020 inches)
OPERA TING PRESSURE
AIR CONSUMTION
WORKING RANGE Indiacting heading angle in 360°
GYROWHEEL RPM
FROM START TO RUNNING SPEED MAX
MOMENTUM OF INERTIA · · · · 310 gr.cm²
ANGULAR MOMENTUM
WEIGHT 1kg.(2.2lbs.)

#### 3 INSTALLATION AND USING

- (1) Assemble the itlstrumant on a shock-resistant panel so it is not subject to exceeding vibrations. The instrument shall be mounted on the rear of panel using four screws. Dimensions of cutout to be made in instrument panel for installation shown in Fig. attached.
- (2) Before use the instrument, checking and be sure it is qualified: Connect the instrument to an operating air that pressure is 15 ~ 18 kPa (or the aircraft vacuum system and make a vacuum 15 ~ 18kPa) for 5 minutes. 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	
No gyro turning sound after connect to an operating air (or the aircraft vacuum system).	Checking and be sure the air pressure ( or vacuum ) is correct.	
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 sailsfied.

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.

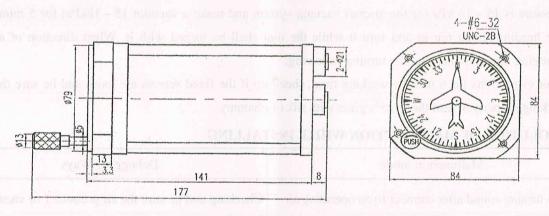
## GD031 WORKING RECORD OF DIRECTIONAL GYRO-AIR

Gyro No.:

Purchase Time	D. 1-061 this south is a distant things to a thin impact distant	
<b>Unsealing Time</b>		OF LAUTE DATE
Checking Record Before Using	<ol> <li>Operating air (or vacuum): 15 ~ 18 kPa  Yes  No</li> <li>The dial is turning when heading—given pin has been pushed in and turned. Yes  No</li> <li>The dial is turning when aircraft change its direction.</li> <li>Yes  No</li> </ol>	OPENATORO DE RELATIVETRO RUGHT ALSTE WASHVUM ALS
Installing Time	- M ()89 SI - E1 - recommendation - 13-18 (Pa() M	DEEKA TING PL
Malfunction Happened Time		MIR CONSUME WORJCJNOTEN
Description Of Malfunction	PALINING SPEED MAY - COMMISSION OF THE STATE OF THE SPEED	GYROWHJEER TROM START T
	DATE LOND	

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

# **OUTLINE OF DIRECTIONAL GYRO-AIR**



## INSTALLATION DIMENSIONS

