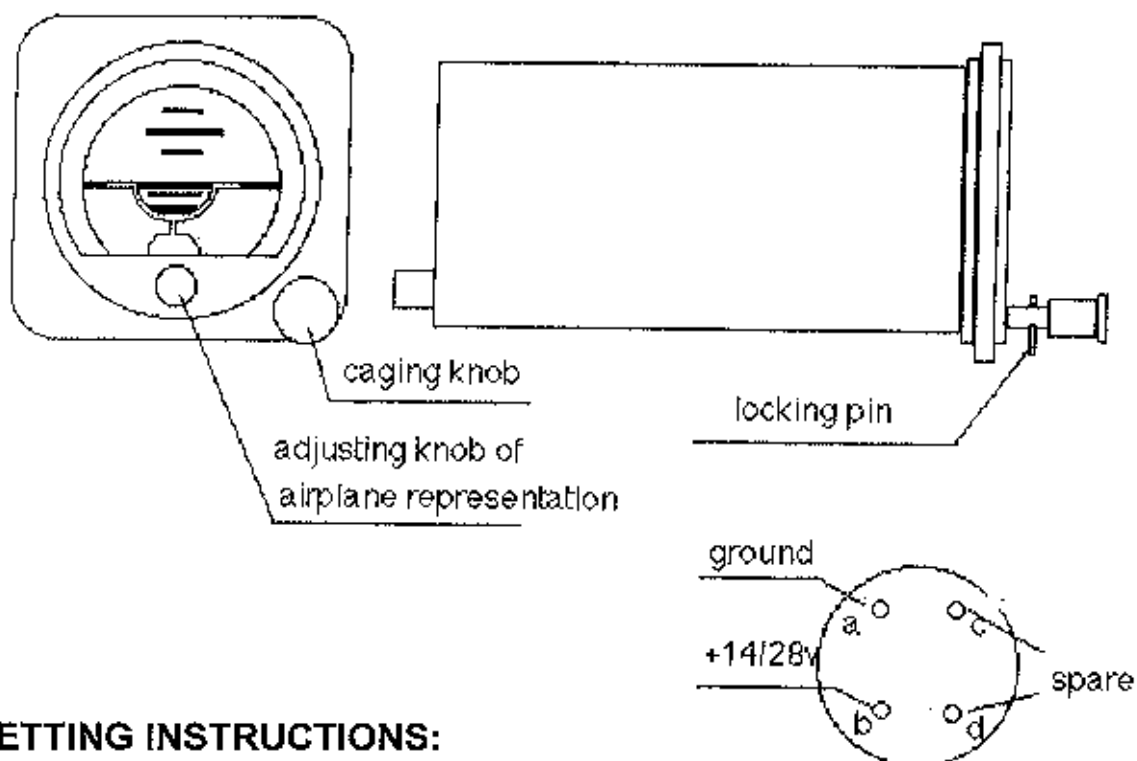


FALCON GAUGE ELECTRICAL ATTITUDE GYRO INSTRUCTIONS

<u>Model No.</u>	<u>Voltage</u>	<u>Description</u>
GH02E-3	14 VDC	0 degree
GH02E-3A	14 VDC	8 degree
GH02E-3B	28 VDC	0 degree
GH02E-3L	14 VDC	0 degree, lighted
GH02E-3AL	14 VDC	8 degree, lighted
GH02E-3BL	28 VDC	0 degree, lighted

Before unpacking the unit:

1. Check the gyro's power requirement and make sure it matches with the voltage of your airplane's electrical power supply.
2. The gyro should be handle with great care.
3. The gyro should not be tampered with or dropped onto the ground.
4. The gyro should be installed on a Vibration-proof instrument panel.



SETTING INSTRUCTIONS:

1. Pull the "caging knob" a little bit and take the "locking pin" out.
2. Install the gyro in the instrument panel using the screws provided with the unit.

3. Plug the gyro with cable (not supplied with the unit) and connector to your airplane power source, but do not turn on yet.
4. Adjust the airplane representation wings overlap to the 0 degree horizontal line by turning the "Adjustment knob"
5. Turn the power on. Within 5 seconds, pull the "caging knob" gently and smoothly all the way to the point and hold it for about 30 seconds, then gently release without any force and avoid snapping back the knob.

CAUTION: **Caging knob" should be pulled smoothly. If there is any difficulty in pulling out to the position at a time, simply release it, and then pull again. A hard pull could damage the unit!

**If the caging has not been done in a timely manner and the rotor already reaches its running speed, the caging will need to be done slower and smoother.

6. Make sure the Warning flag has disappeared from view and wait for about 3 minutes for the rotor to reach running speed. The gyro is now ready to fly.

MAINTENANCE TIPS:

1. Save the "Locking pin" for future use. **Always** lock the unit before shipping.
2. Even though the gyro is cageable, it is safer to pull the whole unit out before heavy aerobatic flying.
3. After fly circling and when the airplane is flying at level position, recage the unit to eliminate the possible reading error from circling.
4. Repeat steps no. 4 through 6 of Setting Instructions every time before flying.

GYRO HANDLING

To prevent damage to the gyro, it should be transported to and from the aircraft in it's original shipping container. When this procedure is impractical, the gyros should be hand-carried with special care.

Gyros should never be removed while they are running or spinning down. A gyro normally operates between 20,000 to 24,000 rpm and takes 10 or more minutes to run down. If a gyro is removed while it is running and if it is tilted more than 90 degrees, it will develop a gimbal lock. The gimbal will tumble and start to spin. If gimbal lock occurs while the gyro is turning, the gimbal may spin fast enough to damage the gimbal bearings. Even though a gyro

has malfunctioned and is being removed from the aircraft, the gyro should be treated with the same respect due a new one. It is easy to think of a gyro that has malfunctioned as one destined for the scrap pile. This is not so. It can probably be fixed. It is therefore very important that proper handling procedures also be used during removal.

Gyro handling techniques are summarized as follows:

1. Keep the gyro in the original shipping container as long as possible or provide a well-padded, shock-absorbent container for transporting the gyro.
2. Wait at least 10 minutes after removing electrical or vacuum power from the aircraft and/or gyro before removing gyro. DO NOT remove a gyro while it is running.
3. Lift gyro from the base and carry in an upright position.
4. Handle the gyro with care at all times and avoid subjecting it to shock or vibration.

Shipping Guidelines

- A. Keep original shipping containers that the gyro instrument is received in for future reshipment. Gyro instruments that have been returned, have arrived improperly packaged, and were found to have extensive bearing damage. Proper packaging helps prevent this.
- B. Cage the gyro instrument, if possible prior to packaging.

Wultrad, Inc
950 Rand Rd. #119
Wauconda, IL 60084
www.falcongauge.com
Email: info@falcongauge.com