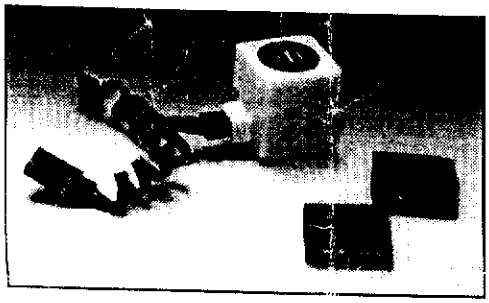
PG-01T Solid State Piezo Gyro System by Century

CN2017J
CN2017F



Specifications:

Dimensions:	1.05" x 1.05" x 1.07"
Weight:	16 g (0.57 oz)
Power Supply:	4.8 -6.0 Volts
Current Consumption:	30 ma
Operating Temp:	23° - 155°F
Rudder Servo:	CN2018 High speed rudder servo (recommended).

Please read instructions completely before operation.

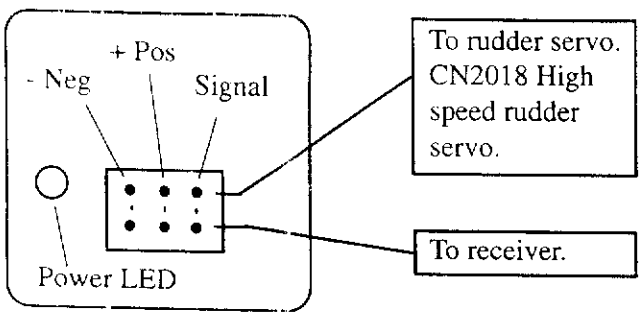
Introduction

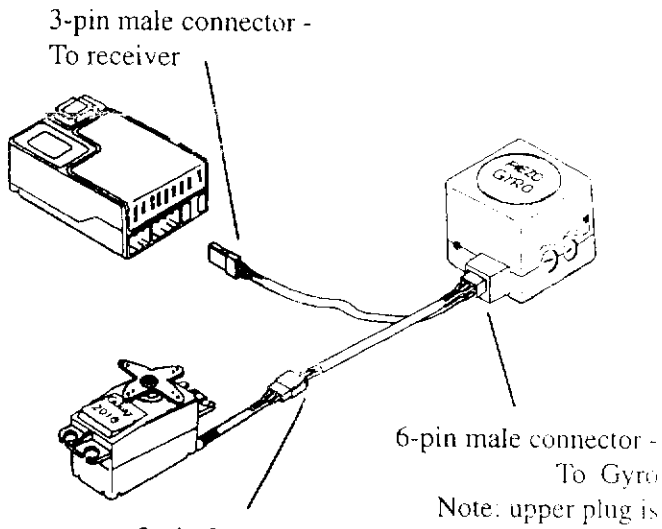
Congratulations on your purchase of the PG-01T Solid State Gyro System. We are very proud to introduce the PG-01T as an affordable high performance substitute for the traditional expensive and heavy mechanical type gyro units. You will be pleased to note that we are using the same high quality Solid State Piezo Electric vibratory sensor instead of mechanical components at a far less cost to you than some of the Branded Piezo Gyros available.
Although designed for glow and electric helicopters, the PG-01T is well suited for model aircraft due to the compact size, very low weight and low ampherage draw. Several gyros can now be used on ducted fan, electric and scale aircraft to assist the pilot in stabilizing their model.

Installation

1. First of all, please connect the rudder servo (or any function you expect to be assisted by PG-01T Piezo Gyro) to your receiver. Turn on the transmitter and receiver. Your helicopter (or aircraft/surface models) should be set up as per the manufacturer's instructions. It is particularly important that the rudder trim (mechanical and electronic) are set to the neutral position and the servo horn is installed in the neutral position on the helicopter. Recheck the neutral position again as this a vital point in the correct calibration of the PG-01T unit. Otherwise, it can cause setting changes later.

2. Turn your transmitter and receiver's power off. Disconnect the rudder servo from the Receiver and connect the wiring harness. The harness has a 6-pin male plug at one end and a 3-pin female plug and a 3-pin male plug on the other end.

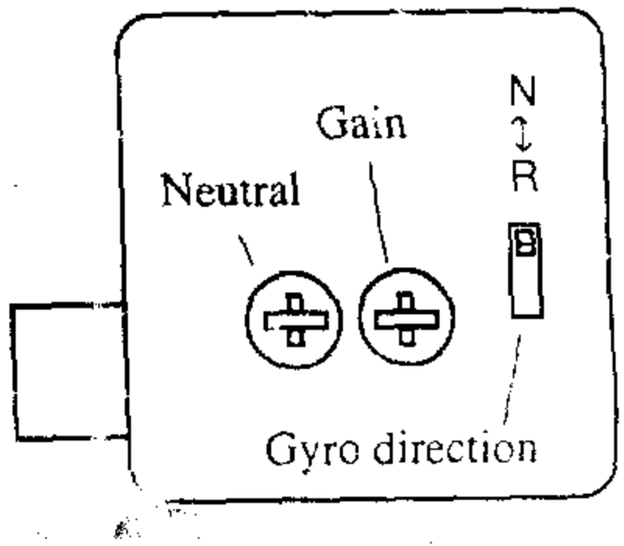




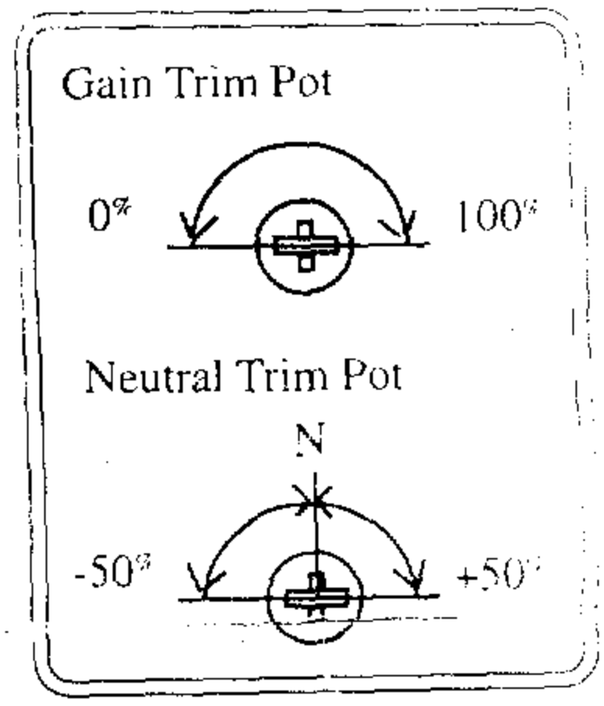
Warning, if any radio system is used other than JR or Futaba make sure same polarity is mantained otherwise you will damage the PG-01T.

3. Mount PG-01T using one layer of 1/4" soft double-sided adhesive tape to absorb the vibration which is caused by the engine and mechanical set-up (two are supplied). Most helicopter kits have a recommended location for the gyro, this location is for *mechanical* gyros. This does not apply to the PG-01T piezo gyro. Mount the PG-01T inside the canopy to keep the gyro clean and is subjected to less engine vibration. The gyro should be mounted so the case of the gyro **does not contact the helicopter frame or other radio components or wiring.**

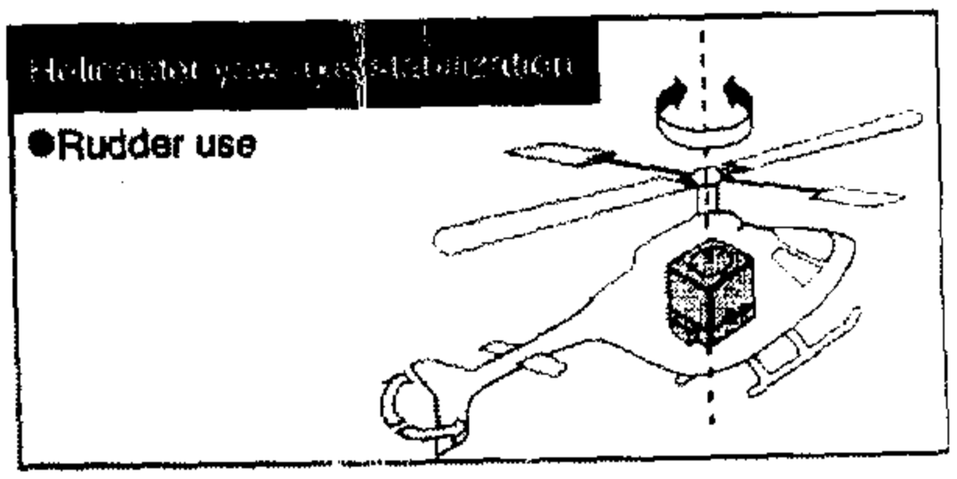
Setup & Adjustment



4. Turn on your transmitter and receiver, the red Power LED remain on while the PG-01T is working
5. Check that the gyro is installed correctly by watching the rudder servo. While holding the rotor head move the rudder stick to the right and observe the direction the servo arm moves. Now quickly rotate the nose to the left, the servo horn should move in the same direction. If the rudder servo horn moves in the opposite direction reverse the gyro direction. Using a small flat screw driver change the switch direction on the gyro.
6. The PG-01T neutral adjustment is factory set however check that after the radio is turned on with the gyro connected, the rudder servo is still at the exact same neutral setting as observed in Step 1. If the this neutral setting has changed, using a plastic screw driver adjust the NEUTRAL trim pot to return the rudder servo horn to the neutral position.
7. Turn the **GAIN** trim pot Clock-wise to the right at 100%. This will change the neutral position, tune the **NEUTRAL** trim pot slightly to return the servo to the neutral position. Return the GAIN trim pot to 50%. After the above adjustment, we would like to suggest you to put on a sticker to cover the **NEUTRAL** trim pot as no further adjustment is required.

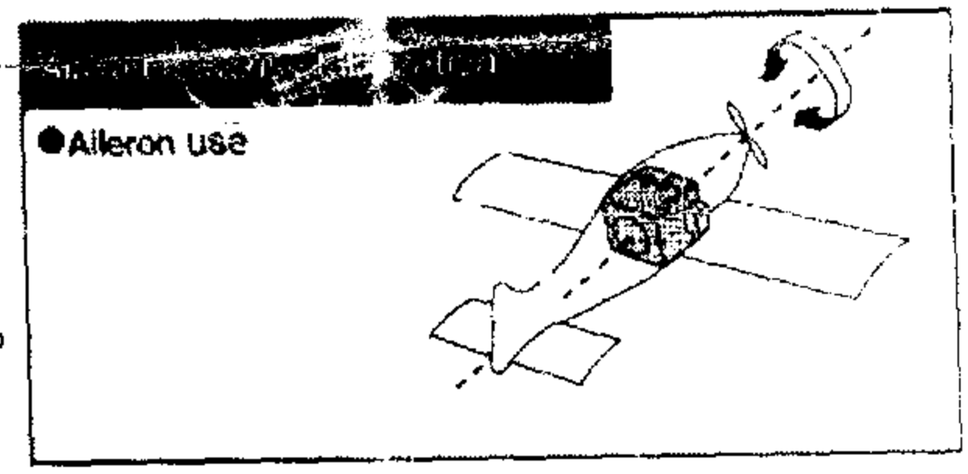


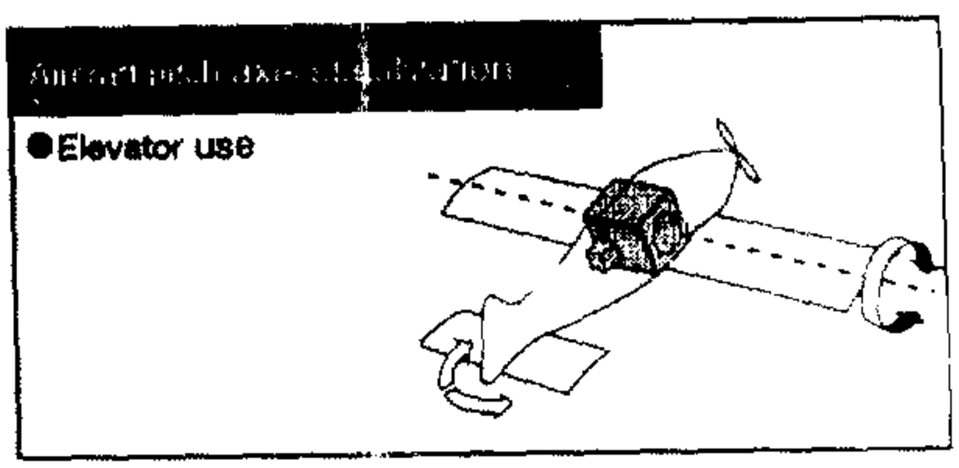
8. The tail rotor pitch settings should be setup so the tail should have no tendency to rotate when hovering. Do not make radio trim adjustments but shorten or lengthen the tail rotor pushrod. The initial **GAIN** setting should be 30-50%, bring the helicopter to a hover, keep increasing the **GAIN** until the tail starts to oscillate (hunt). At this point reduce the **GAIN** slightly (5-10%).



A. If hunting occurs at less than 65% in hover - then move the rudder pushrod connection one hole inwards on the servo.
B. If no hunting occurs at 100% in hover - move the rudder pushrod connection one hole outward on the servo.
9. Adjustment of Gain.

	BEGINNER	EXPERT FLIER
PG01-T	**30% - 60%**	**30% - 80%**





Warranty Coverage

Your new equipment is warranted to the original purchaser against manufacturer defects in material and workmanship for 90 days from the date of purchase. The warranty is limited to the original purchaser and is not transferable. This warranty does not apply to any unit which has been improperly installed, mishandled, abused or damaged in a crash, or to any unit which has been opened, repaired or altered by any unauthorized agencies. Under no circumstances will the buyer be entitled to consequential or incidental damages. Do not subject your gyro to extreme temperatures, humidity or moisture or in direct sunlight for long periods of time. Due to the delicate nature of the electronic components, the impact of dropping the gyro to the floor can damage the unit.

If the gyro requires service and is within the warranty period, call for a return authorization # and include a copy of the original receipt. Return your gyro unit only in the original box with foam packaging. Package the unit in a sturdy container and include full return address and description of damage. Send the parcel insured and postage prepaid, please allow 8-12 weeks for service.

Non-warranty repairs- You will be advised on the repair cost, please allow 8-12 weeks for service.