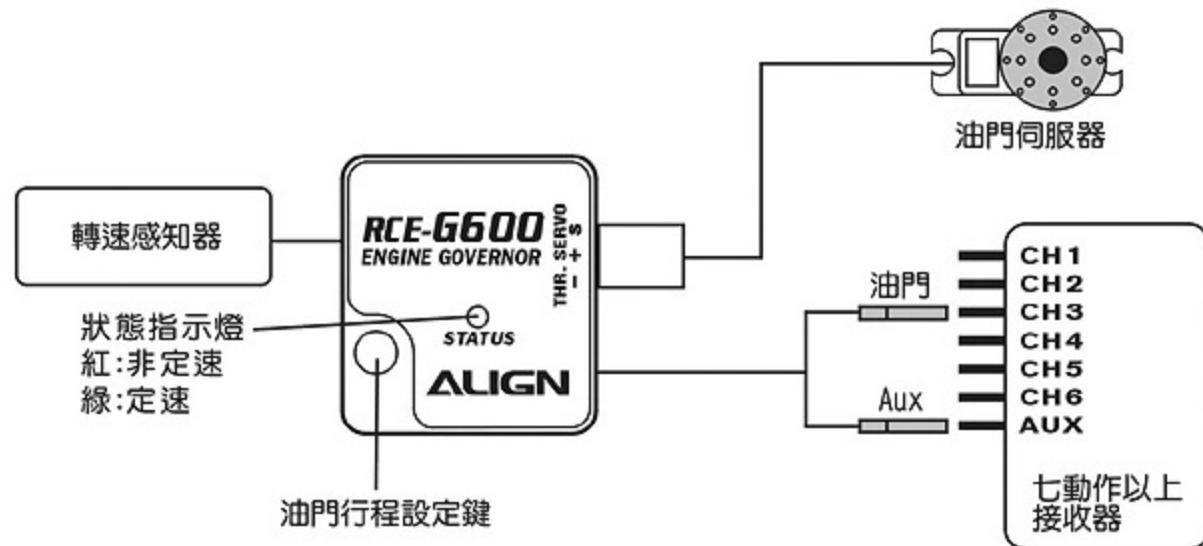


功能說明

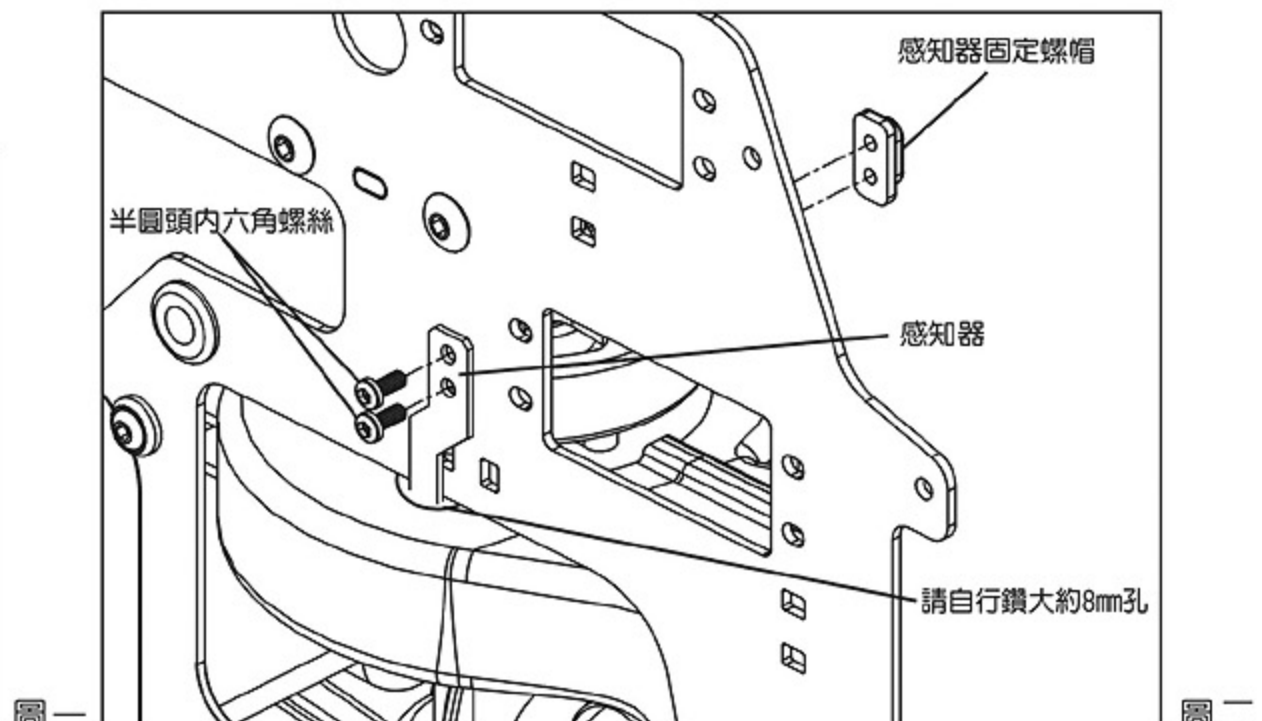
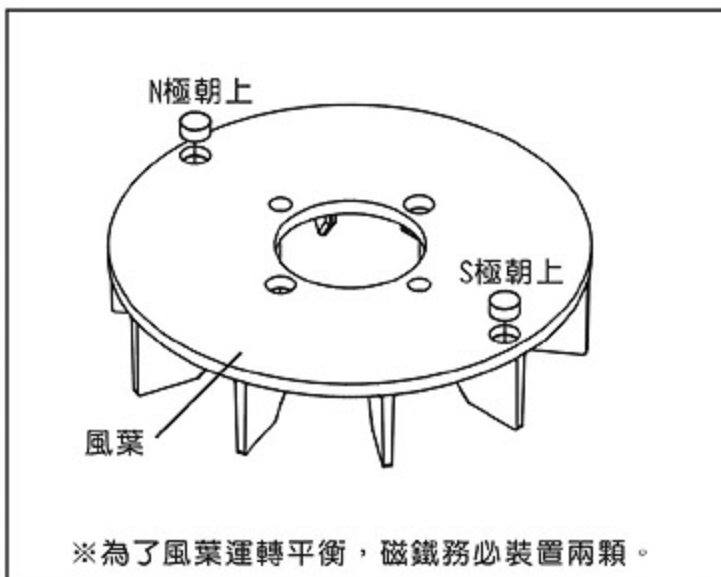
1. 造型精巧操作簡易，不需繁雜的設定，同樣有優異的定速表現。
2. 轉速解析度0.1 RPM。
3. 轉速控制精度1%以內 (steady state)。
4. 不適用S9251、S9256等760 μ s伺服器。

產品規格/配件

- ★工作電壓:DC 4.5V-6V。
- ★消耗電流:<20mA@4.8V。
- ★直接偵測引擎轉速。
- ★定速範圍:10500-21000RPM。
- ★伺服器PWM輸出波寬1-2ms，不適用S9251、S9256等760 μ s伺服器。
- ★工作溫度範圍-20 $^{\circ}$ C-85 $^{\circ}$ C。
- ★工作濕度範圍:0%-95%。
- ★本體外殼尺寸:28.5x26.2x9mm。
- ★訊號線長:160mm。
- ★轉速感應線長:250mm。
- ★重量:10g(含線組)。
- ★配件:
轉速感應磁鐵x2pcs。
半圓頭內六角螺絲(T2.6x6)x2pcs。
感知器固定螺帽x1pcs。



安裝使用說明



1. 如圖一先將轉速感應磁鐵一顆N極朝上(作記號的面為N極)，一顆N極朝下，以CA或R48黏著在引擎風葉預留的磁鐵座上。
※注意:磁鐵須固定牢靠，若飛行中磁鐵不慎脫落，定速器將自動取消定速功能。
2. 如圖二標示之位置將轉速感知器安裝於側板上，並檢查是否與風葉產生干涉的情形。
3. 連接定速器前，先確定油門伺服器正逆轉及機械行程是否正確。
4. 選一個遙控器上未使用的通道開關，作為定速與非定速的切換開關，並將定速器的黃色訊號線接到接收器上對應此開關的通道，接著將定速器接上電源後撥動此開關，以確定開啓是定速模式，及關閉是非定速模式(於定速模式時定速器上的LED為綠燈，非定速模式LED為紅燈)。
5. 定速器接上電源後，LED恆亮，當磁鐵與感知器重合時，LED會熄滅。
(如LED未熄滅，需檢查磁鐵極性是否正確?線路連接是否正確?感知器及磁鐵距離是否正確?)
6. 油門行程的校正:先將油門置於最低點的位置，將發射機電源打開，開啓接收機電源，當LED亮起後按定速器上的設定鍵三秒後，此時LED會閃爍，接著將油門撥桿推到最高點位置，稍等LED會先熄滅後重新亮起，即完成設定作業。
※注意:未執行定速器油門行程設定前切勿發動引擎，以免油門行程錯誤或發生伺服器反向之情形。
7. 油門曲線在normal時為直線(0%/50%/100%)，idle油門曲線最低點不可低於50%，即使有安裝定速器，遙控器的油門曲線仍要依照正常的模式來設定，因為當定速器失效時會返回非定速模式。
8. 定速器的啟動條件有二項:(1)定速器開關開啓，LED亮綠燈。(2)油門位置>30%以上。
9. 當啟動定速功能時，引擎的轉速即交由第4步驟所選定通道的行程量(ATV)百分比(%)來進行控制，下表為Futaba與JR遙控器ATV設定值與引擎轉速的對照表，主旋翼的轉速請依原廠直昇機的引擎齒比換算。

ATV	FUTABA PCM 1024Z		FUTABA T14MZ		JR PCM10S&9X	
	引擎轉速	T-REX 600N 主旋翼轉速8.5:1	引擎轉速	T-REX 600N 主旋翼轉速8.5:1	引擎轉速	T-REX 600N 主旋翼轉速8.5:1
10%	10500	1235	10500	1235	10500	1235
20%	10500	1235	10500	1235	10500	1235
30%	12000	1412	10800	1271	10500	1235
40%	13700	1612	12000	1412	11200	1318
50%	15400	1812	13300	1565	12400	1459
60%	17070	2008	14550	1712	13600	1581
70%	18760	2207	15800	1859	14850	1747
80%	20410	2401	17100	2012	16000	1882
90%	21000	2470	18340	2158	17200	2024
100%	21000	2470	19700	2318	18450	2171
110%	21000	2470	20860	2454	19640	2311
120%	21000	2470	21000	2470	20760	2442
130%	21000	2470	21000	2470	21000	2470
140%	21000	2470	21000	2470	21000	2470
150%	21000	2470	21000	2470	21000	2470

註:如開機時定速器燈沒亮，有可能是磁鐵跟感知器重合，請轉動風葉磁鐵位置，讓指示燈亮起。

Features

- ★ Compact design, easy use, simple setting with great speed control performance.
- ★ Speed resolution: 0.1RPM
- ★ Speed stability accuracy: within 1% (Steady State)
- ★ Not apply to S9251、S9256 and other 760 μs servos.

Specifications

- ★ Operating voltage: DC4.5V-6V
- ★ Consumption current: <20mA@4.8V
- ★ Direct detection of engine rotation speed
- ★ Speed control range: 10500~21000RPM
- ★ Servo RWM output pulse width: 1~2ms, not apply to S9251, S9256, other 760 μs servos.
- ★ Operating temperature range: -20℃~85℃
- ★ Operating moisture range: 0%~95%
- ★ Case size(body): 28.5x26.2x9mm
- ★ Signal wire length: 160mm
- ★ Sensor wire length: 250mm
- ★ Weight: 10g(including wires)
- ★ Accessories: Magnet x2pcs
Screw (T2.6x6) x2pcs
Sensor Nut x 1pc

Instruction

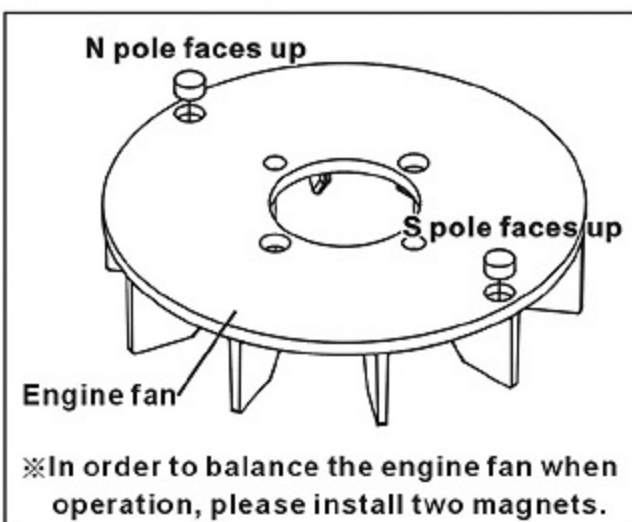


Fig.1

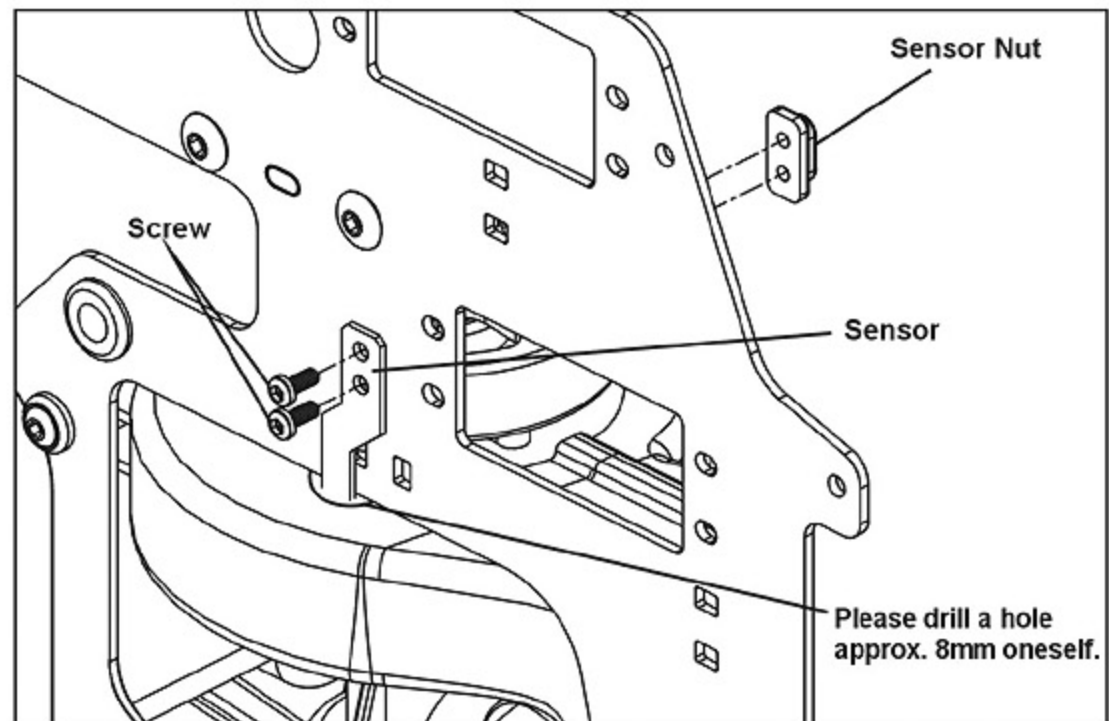
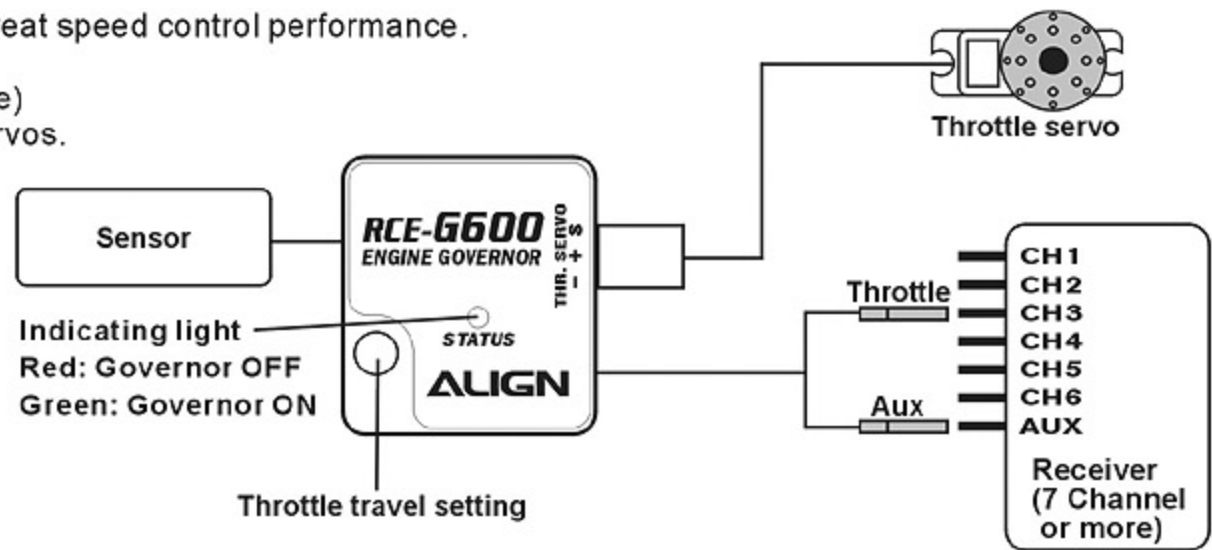


Fig.2

- See Fig. 1, first install two magnets on the mounting hole of the engine fan with CA glue or R48 glue, the north pole of one magnet (mark N) faces up and the north pole of the other magnet faces down.
NOTE: Magnets must be firmly secured. If the magnet falls from the engine fan during the flight, the governor will automatically cut out the speed control function.
- See Fig. 2, install the sensor on the main frame, and check if any interference caused by the engine fan.
- Before connecting to the governor, first please check the rotation direction (clockwise/anti-clockwise) of throttle servo and travel range are correct.
- Choose an un-used switch for governor ON/OFF switch. Connect the yellow sign wire of the governor to the receiver's channel. Then connect the governor to the power and make sure that turning on the switch is for Governor ON and off is for Governor OFF. (Green LED light is governor ON mode, and Red LED light is governor OFF mode)
- When connecting the governor to the power, LED light is on. When the magnet is lapped over the sensor, the LED light will be off. (If the LED isn't off, please check the polarity of the magnet and check if the wire is well connected and check for the distance between the sensor and the magnet.)
- Adjustment of throttle travel: First place the throttle stick at the lowest position, and then turn on the transmitter. After that turn on the receiver. When the LED light is on, press "Throttle Travel Setting" button on the governor for 3 seconds. While the LED light flash, please place the throttle stick at the highest position. Then the LED light will be off and later be on again, it means the setting is completed.
NOTE: Do not run the engine before completing the throttle limit setting, to avoid the throttle travel error or servo reversion.
- When normal, the throttle curve is straight (0%/50%/100%). When Idle, the throttle curve cannot be lower than 50%. When the governor fails, it will go back to the governor OFF mode. Therefore, even though you have installed the governor, the throttle curve of transmitter must be set as regular setting.
- Two conditions- Governor will be enabled:
(1) Turn on the governor switch, and LED light is green. (2) Throttle position >30% and more.
- When the governor turns on, the rotation speed of the engine is controlled by the ATV (%) which is the channel chosen on the 4th step. The following chart is ATV setting and engine rotation speed for Futaba and JR transmitters. The rotation speed of main blade is converted according to the engine ratio of original helicopter.

ATV	FUTABA PCM1024Z		FUTABA T14MZ		JR PCM10S&9X	
	Engine speed	T-REX 600N Main blade speed8.5:1	Engine speed	T-REX 600N Main blade speed8.5:1	Engine speed	T-REX 600N Main blade speed8.5:1
10%	10500	1235	10500	1235	10500	1235
20%	10500	1235	10500	1235	10500	1235
30%	12000	1412	10800	1271	10500	1235
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130%	21000	2470	21000	2470	21000	2470
140%	21000	2470	21000	2470	21000	2470
150%	21000	2470	21000	2470	21000	2470

NOTE: If the LED light is off, please check if the magnet is lapped over the sensor. Please turn the magnet position of engine fan to let the LED light on.