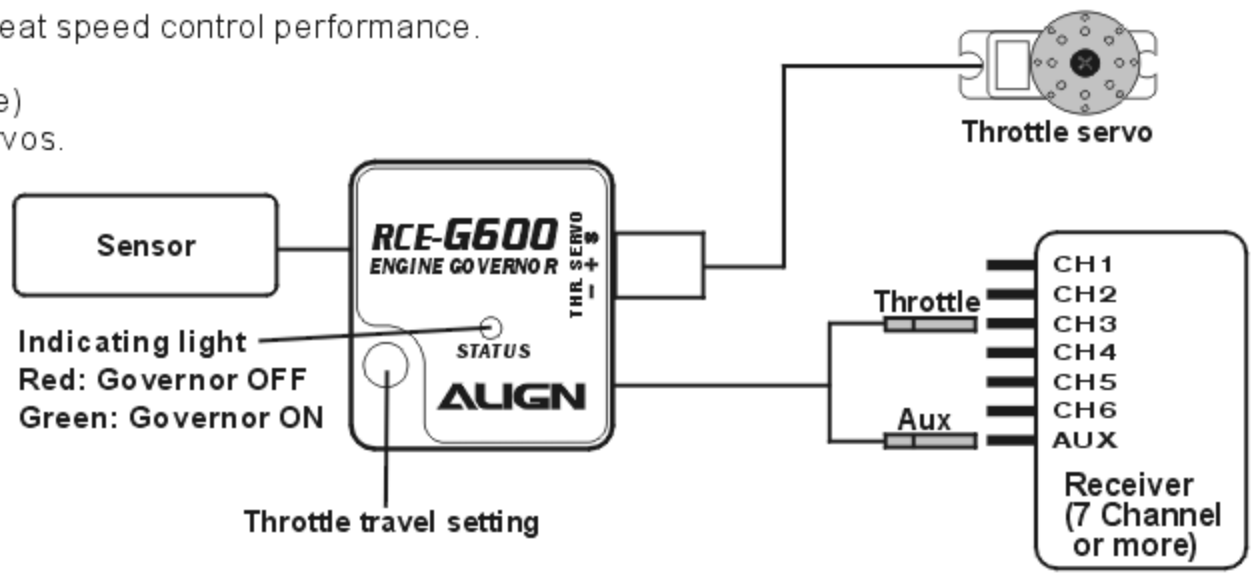
ALIGN RCE-G600 Governor Instruction Manual

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 760μs 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 760μs 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

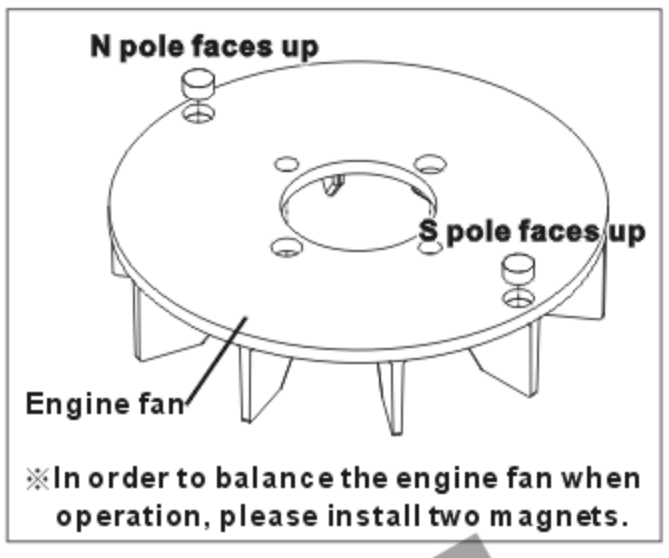


Fig.1

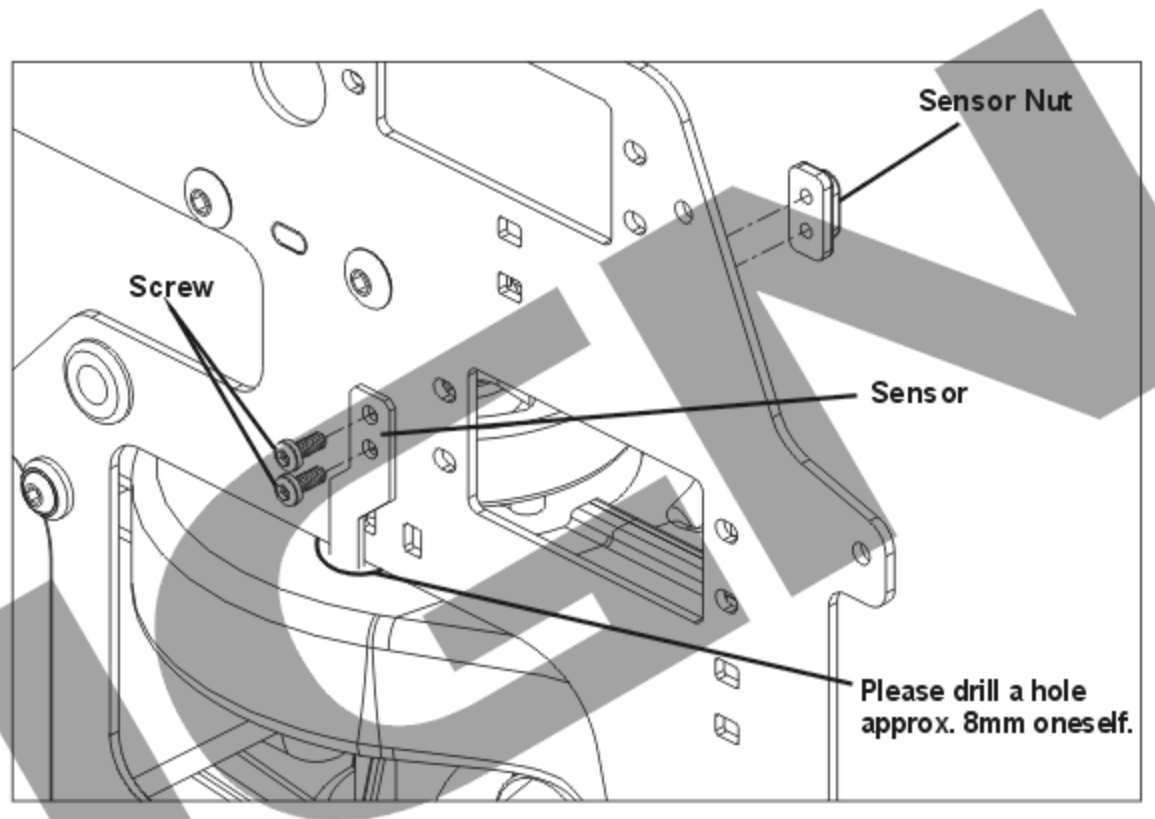


Fig.2

1. 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.

2. See Fig. 2, install the sensor on the main frame, and check if any interference caused by the engine fan.
3. Before connecting to the governor, first please check the rotation direction (clockwise/anti-clockwise) of throttle servo and travel range are correct.
4. 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 ight is governor ON mode, and Red LED light is governor OFF mode)
5. 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.)
6. 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.

7. 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.
8. Two conditions- Governor will be enabled:
(1)Turn on the governor switch, and LED light is green. (2)Throttle position >30% and more.
9. 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 PCM 1024Z		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
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

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.

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