RC SUPER MINI HELICOPTER RC電動ミニヘリコプター

EH-550 INSTRUCTION MANUAL

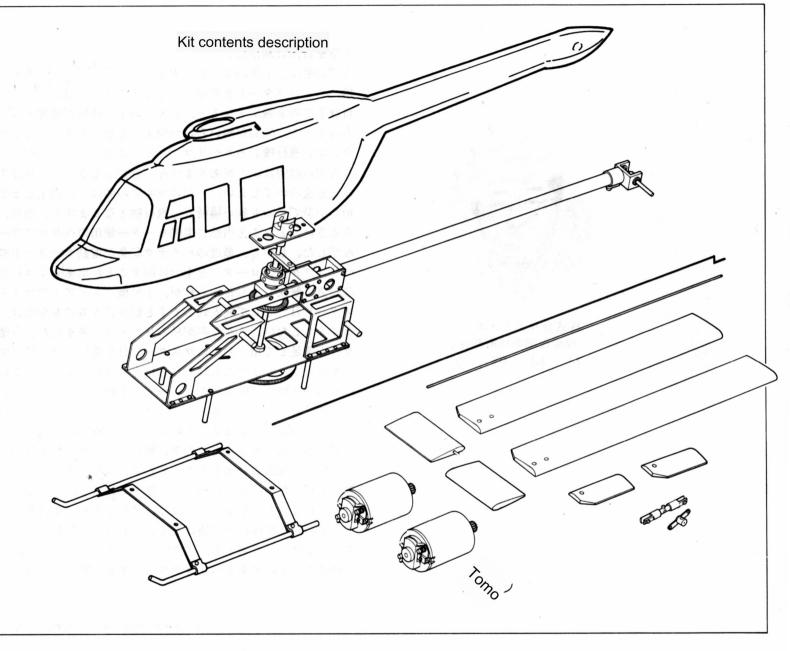
MADE IN JAPAN



Takehisa Ichimura, Director,
Development Technology Department,
Isonic Co., Ltd.

I want to fly freely in the sky!'

Dreams are something that people carry on from childhood to adulthood. It is true that they fly around the sky on airplanes and helicopters all over the world. However, flying in the sky with your own hands requires a huge amount of money and time. Isn't it a radio-controlled airplane and a helicopter to substitute such a wish? Even in such a boom, human desires are limitless. When it comes to flying objects that are quiet, small, and can fly in confined spaces, naturally the only thing we can think of is a helicopter that uses an electric motor if the engine is noisy. Moreover, the recent high-tech industry has made great strides in developing electric motors, making it possible to fully turn the rotors of helicopters, and these problems have been solved at once. We will announce the Master EH developed for the first indoor flight, and it has been well received. In order to satisfy such people, we have developed the EH-550, which is a more powerful Master EH that can be used outdoors. You can easily fly from a parking lot at any time. However, there are some differences between a radio-controlled helicopter and a car or a ship. It is necessary to practice a certain amount of practice in order to soar in the sky and fly freely. If this joy can be felt in your home and around your home, it would be such a pleasure for me, as a designer. No. I would like to continue to make efforts to develop a helicopter that can be easily flown by children, adults, and even women.



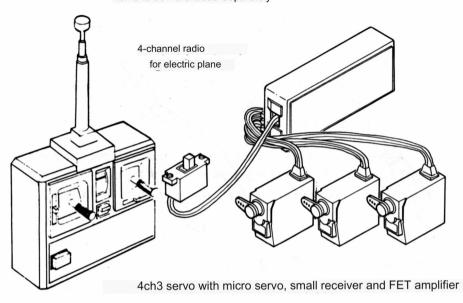
1 set Main body assembly Rotor set set 2 pieces • Motor •2 noise killer capacitors Rod set set • Landing Gear 1 piece -Tail PC set set code 1 sheet Double-sided tape Screw set set

1 set

- clear body

what you need to fly

Items to be Purchased Separately

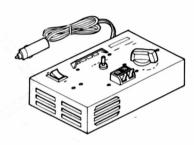


12V battery for starter



fast charger

For electric cars (8.4V chargeable, current adjustable)



<For long flight practice indoors...>

★ Manufacturer's genuine option

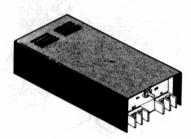
practice code



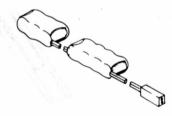
Input battery cord

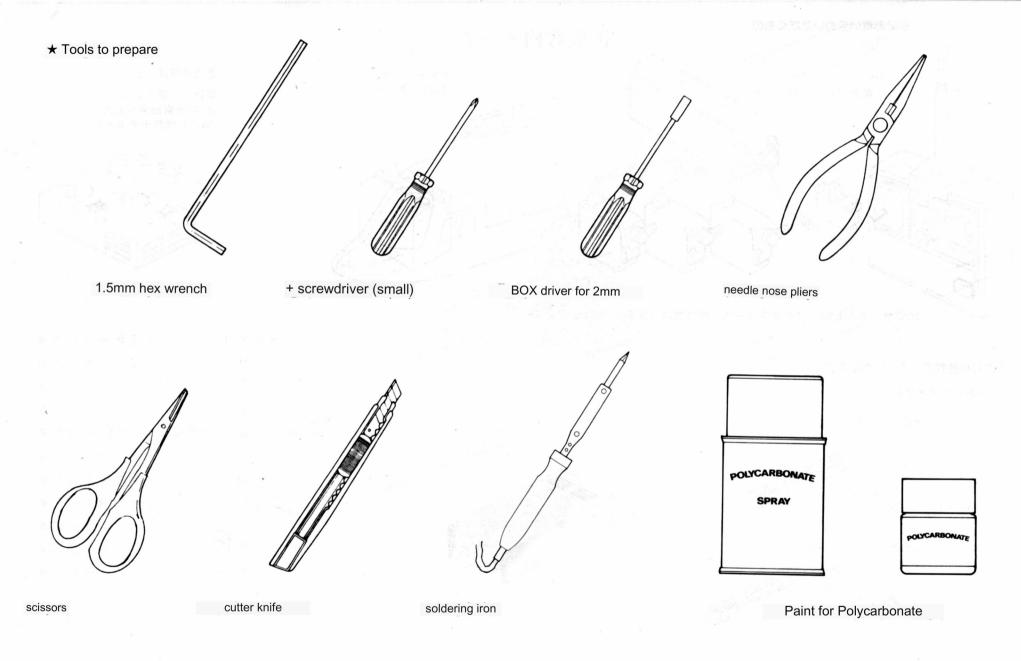


converter



Ni-Cd battery 7N-600AE



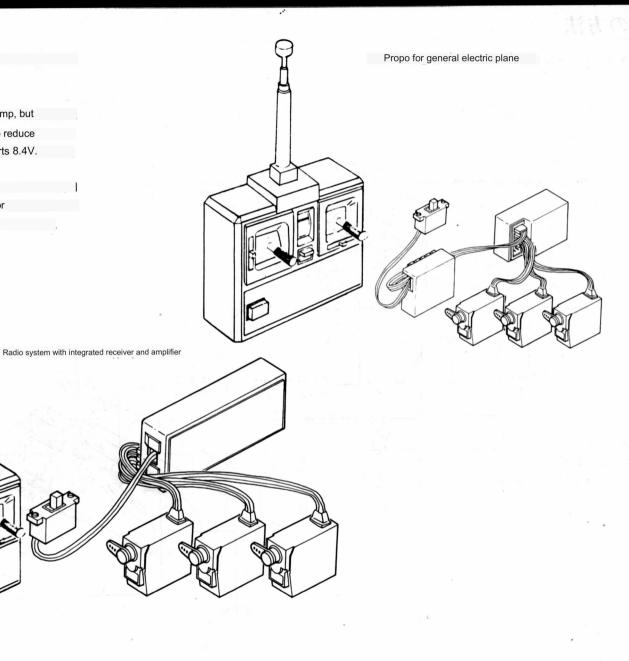


The EH-550 is exclusively for 4-channel electric plane radios.

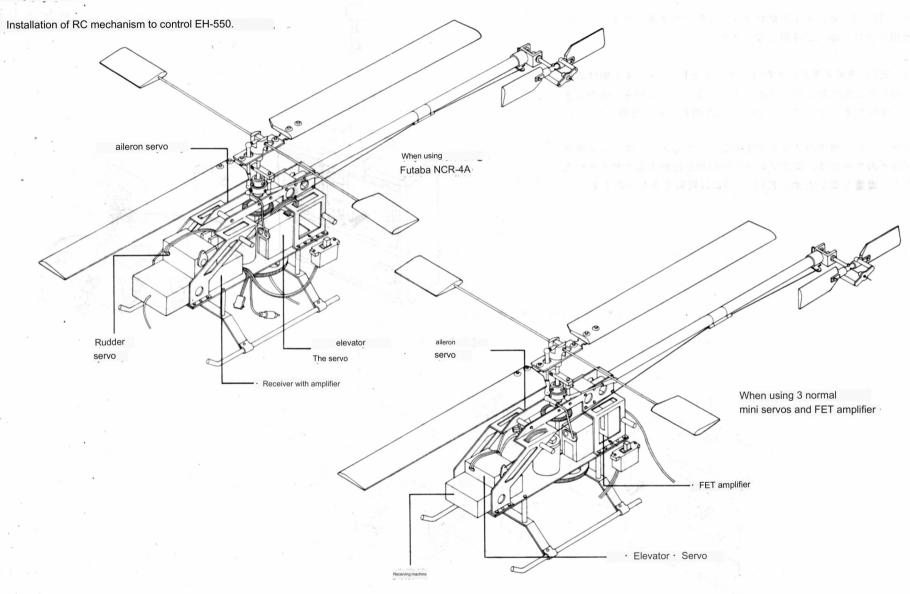
Propo for engine machine cannot be used.

The number of servos used for the EH-550 is 3 servos and 1 amp, but it is convenient to use a receiver and amp integrated in order to reduce the weight of the aircraft. Please use an amplifier that supports 8.4V.

* Why can't I use the engine-type radio system? The servo for the engine-type system is larger and heavier than the one for the electric plane, so it cannot be installed on the EH-550.



2 ways

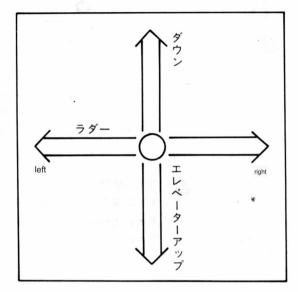


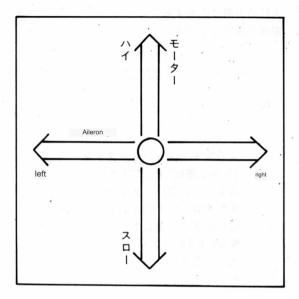
How the propo works

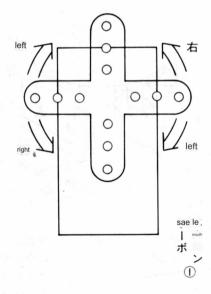
Plug in the transmitter, connect the battery to the receiver, switch on the transmitter, then switch on the receiver and check if it works as shown on the right.

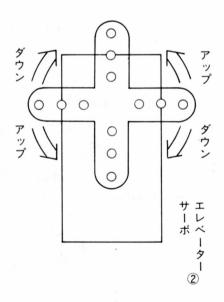
Also, for the reverse dynamic dimension CL, put the transmitter's)

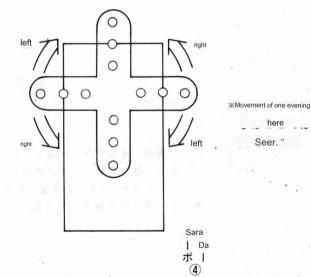
1 (reverse) X \(\) side to the side where it moves normally.

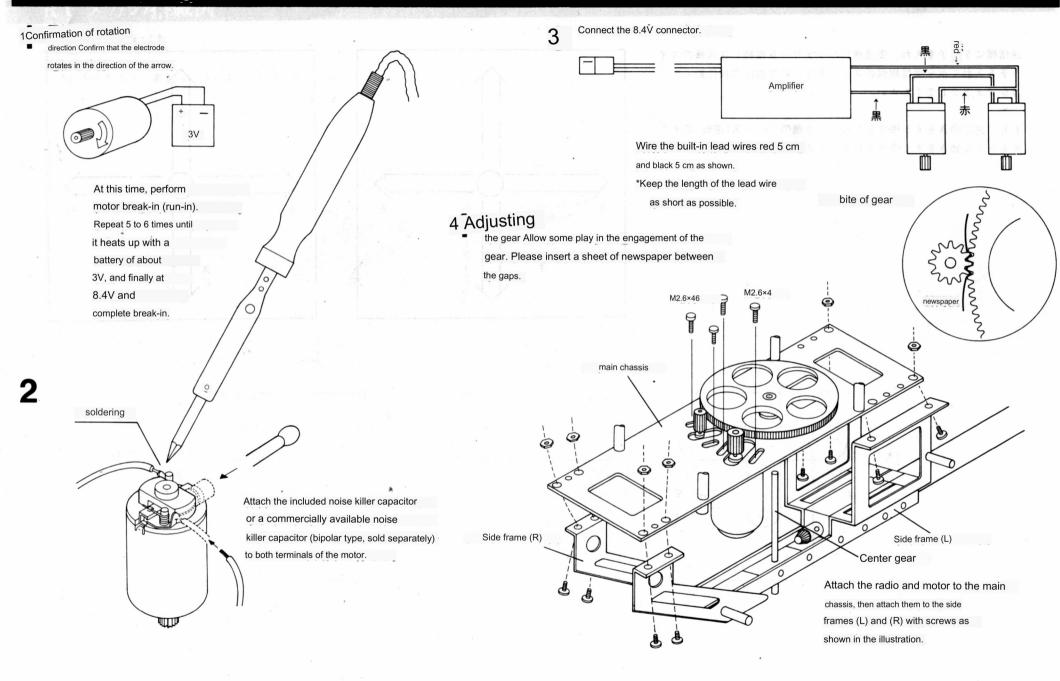


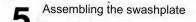


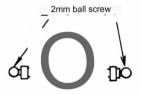






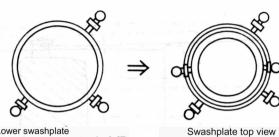






Upper swashplate

(smaller diameter)

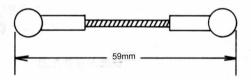


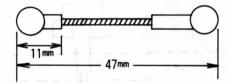
Lower swashplate

(larger diameter)

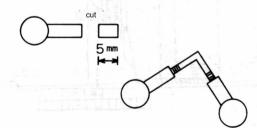
6 Assembling the ball joint Screw Pihot into both ends of the 2mm x 40mm screw and the 2mm x 33mm

screw in the aluminum metal fittings bag.

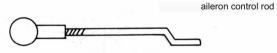




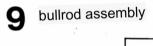
Assembling the pull bar

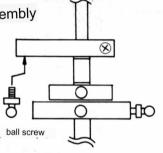


8 Assembling the linkage rod

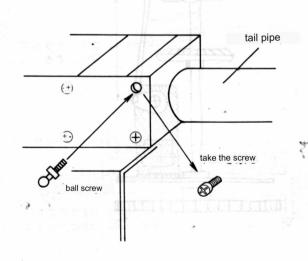


elevator control rod



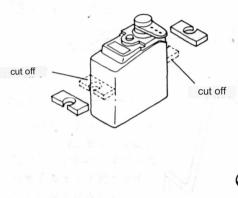


St

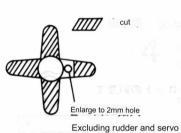


11

13 3 Top view



front view



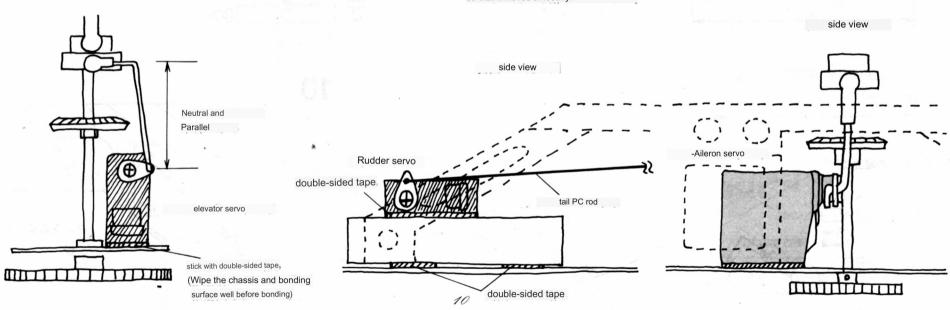
Align the height of the tail PC so that it moves smoothly.

Hold the rod as shown.

Make sure that there is
as little play as possible

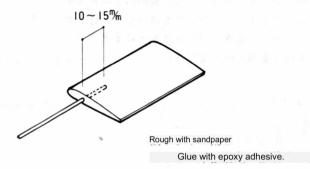
with the hole to be bent.

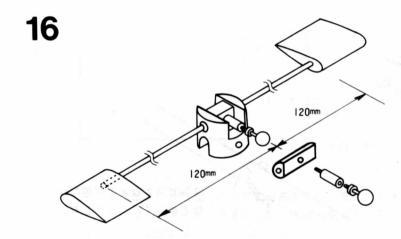
12



15

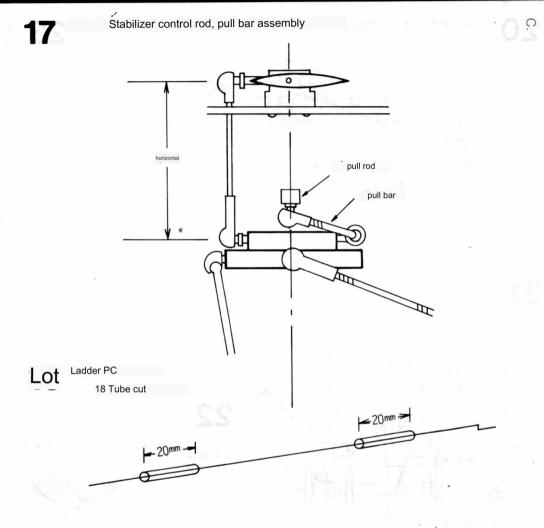
Stabilizer blade assembly

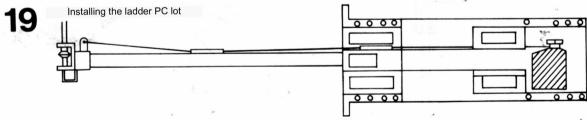




An RC model cannot be said to be complete just by assembling it.

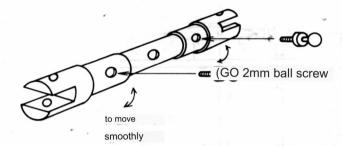
Good flight enjoyment requires some adjustment, and correct assembly and proper adjustment are the keys to successful flight.



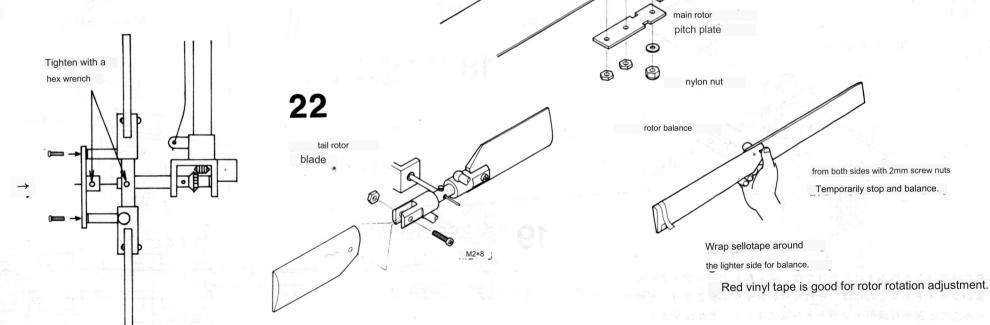


Assembly of main rotor and teller rotor

20 Assembling the tail PC housing assembly:



21



23 Adjusting the main rotor

For the rotor balance, combine the two rotor mounting holes with a long 2mm screw nut, and while maintaining balance around the screw,

 $M2 \times 8$

wrap vinyl tape around the tip of the lighter rotor to achieve balance.

Also, follow the same procedure for the tail rotor.

main rotor blade

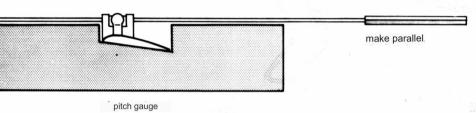
pitch gauge and adjustment

pitch adjustment

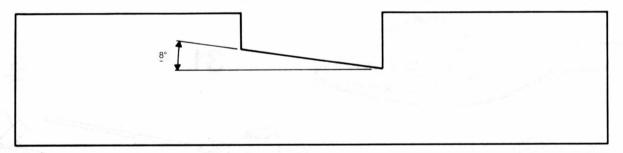
Make sure that the top surface of the pitch gauge and the stabilizer bar are in line. If they are not parallel, twist and bend the rotor

24

pitch plate with needle nose pliers so that both sides are the same.

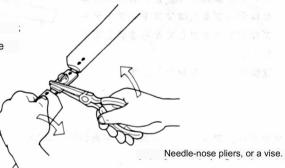


Main rotor pitch gauge actual size drawing

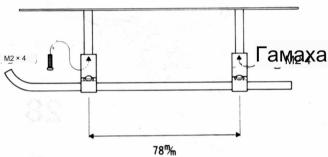


★Make a piece of cardboard that is the same size as this one.

The pitch angle can be varied from 8° to 12°, but the larger the angle, the greater the load on the motor and the faster the charge battery will be consumed, so please adjust the angle between these.



leg brace, skid assembly



26

body cut and paint

Cut out the blackened parts in the figure and drill the designated holes.

Before painting, use a neutral detergent to remove dirt and oil from your hands.

please do it.

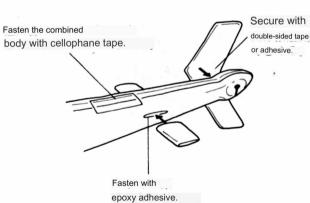
Cut in with a utility knife.

Make a cut with a utility knife.



Place the notched left and right bodies on top of each other and fit.

29



When painting the body, mask the windows with sellotape or masking tape before painting.

Cut diameter 3 cm hole (air hole)

28

Remove the tape after it dries.

M2×4 M2×4

*Drill holes for connectors and antennas.

to cut

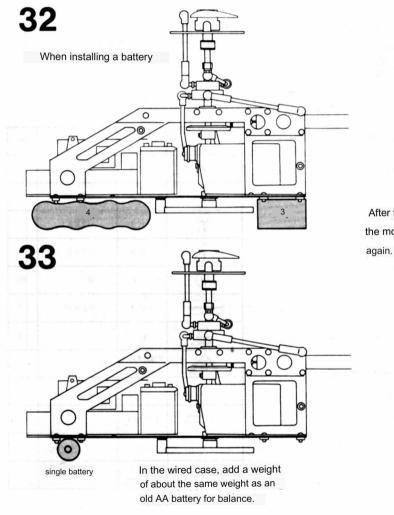
When installing a battery, please refer to 32 on the next page before stacking the bodies.

Battery installation and flight method

tracking adjustment

When the rotor is rotated and the rotating surface is viewed from the side,

If it looks doubled, it means that the two rotors are rotating vertically. Increase the pitch of the underlying rotor without straying too far from the pitch gate angle, or vice versa to align the plane of rotation.





① Rudder right ② Rudder left

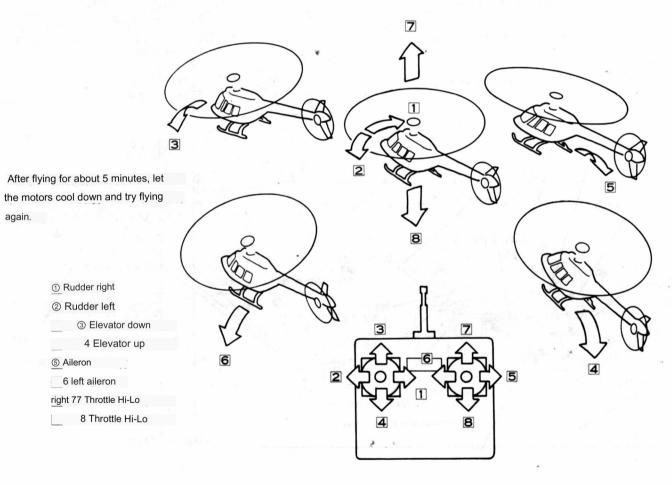
S Aileron 6 left aileron right 77 Throttle Hi-Lo

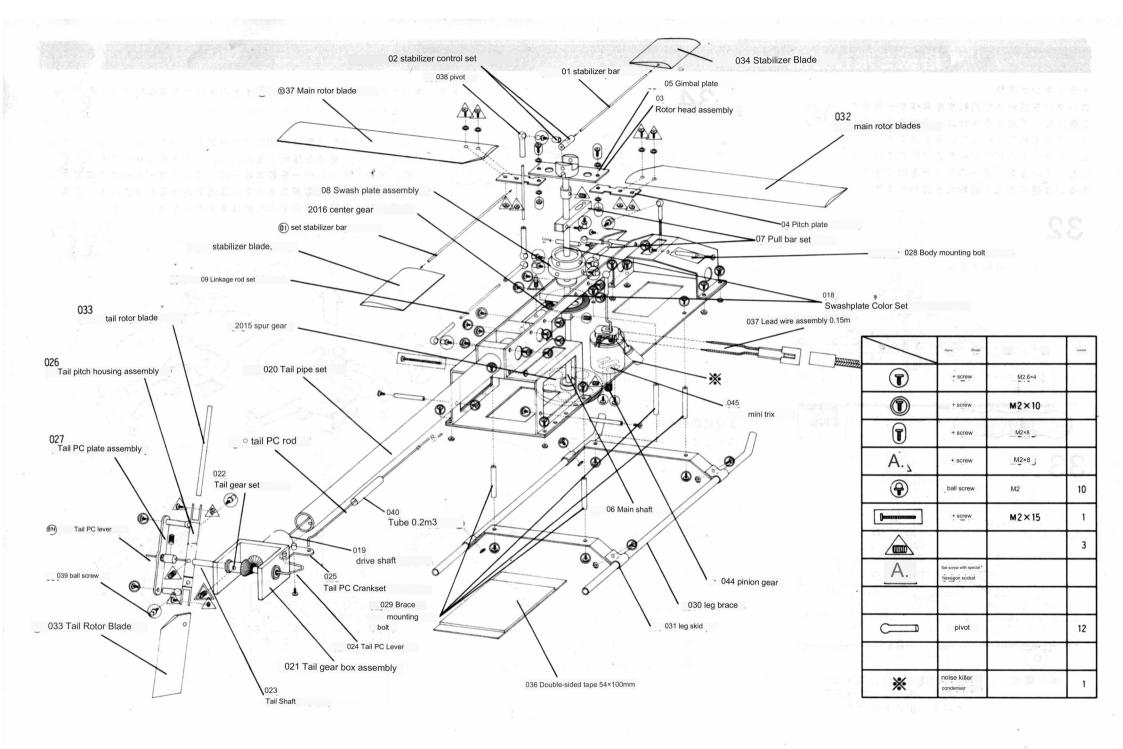
4 Elevator up

*Please try to check and adjust the tracking every time you fly.

When adjusting the rotation of the rotor, be careful of your surroundings and choose a day with little wind. Before connecting the power supply, be sure to turn on the transmitter/receiver switch, move the throttle lever to the slowest position, and confirm that the power is cut off by the controller. Plug in the power connector only when energizing, and remove the connector before touching the aircraft for safety.

Flight method





spare parts list

Part no.	品	set content	Price (yen)
2001	stabilizer bar	Stabilizer bar x 2	150
2002	stabilizer control set	Stabilizer stopper Stabilizer PC bolt	200
2003	Rotor head assembly		2,000
2004	pitch plate	Pitch plate x 2	150
2005	gimbal plate	gimbal plate	250
2006	main shaft	main shaft	200
2007	pull bar set	pull bar pull lot	400
2008	Swash plate assembly		5,000
2009	linkage rod set	Threaded rod AXI Linkage rod AX1 BXI	200
2010	side frame set	Side frame (L/R)	2,000
2011	Main frame assembly		1,200
2012	Bearing case A assembly	1	1,000
2013	Bearing case B assembly		1,200
2014	tail pipe retainer	Tail pipe retainer M2×15M2 Nut	550
2015	spur gear	Spur gear Hex socket set screw M3×3	2,500
2016	center gear set	Center gear AB. Center gear B collar Special hexagon socket set screw	3,500
2017	cross member		50
2018	swashplate color set	Swashplate color A/B	100
2019	Drive shaft		150
2020	tail pipe set	tail pipe tail pipe color	500
2021	Tail gearbox assembly		3,200
2022	tail gear set	Tail gear AB. Tail gear A collar Set screw with slot	3,000
2023	tail shaft		500
2024	tail PC lever		300
2025	tail PC crankset	Tail PC crank link bush	200
2026	Tail pitch housing assembly		2,500

Part no.	product premare.	set "y -	Price (yen)
1	2027 Tail PC plate assembly	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,000
376	2028 Body mounting bolt	Body mounting bolt x 4 .	350
	2029 brace mounting bolt	Brace mounting bolt x 4	400
203	2027 Tail PC plate assembly 2028 Body mounting bolt 2029 brace mounting bolt 2030 leg braces 2031 leg skid 2032 main rotor blades 2033 Tail rotor blade 2034 stabilizer blade 2035 Jet Ranger Body Set 2036 Bell 222 Body Set 2037 Double-sided tape 2038 connector 2039 pivot 2040 ball screw 2041 tube 2042 Special Hex Socket Set Screw 2043 Bind machine screw M2×10 2044 Set screw with slot M2 x 2 2045 pinion gear 2046 Minitrix 2047 Tail PC Rod P 101 DC-DC converter	Leg brace x 2	600
2	031 leg skid	Leg skid x 2	600
	2032 main rotor blades	Main rotor blade x 2	900
	2033 Tail rotor blade	Tail rotor blade x 2	400
	2034 stabilizer blade	Stabilizer blade x 2	300
Charge an	2035 Jet Ranger Body Set	body tail	4,000
1	2036 Bell 222 Body Set	body tail	4,000
2037 [Double-sided tape 54 × 100mm		250
20	038 connector	Lead wire 0.15m	450
2	039 pivot	10 pivots	500
2	040 ball screw	Ball screw x 5	500
2	041 tube	1947 C.	100
2042	Special Hex Socket Set Screw	3 special hexagon socket setscrews	250
2	043 Bind machine screw M2×10	Bind machine screw x 5	100
	2044 Set screw with slot M2 x 2	Set screws with slots x 5	100
2	045 pinion gear		750
	2046 Minitrix (for EH-550)	Condenser with pinion lead wire red x black x 1	2,400
	2047 Tail PC Rod	2.4	300
	OP 101 DC-DC converter		13,000
	102 Ni-cd battery	7N-600AE	5,500th
103	B Practice Chords 3m		2,500

AISONIC

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