



TSURUG

TSURUGI, that is the sword of SAMURAI warriors.

TSURUGI, that is the soul of Japanese peoples.

TSURUGI, that is the symbol of precision and durability.

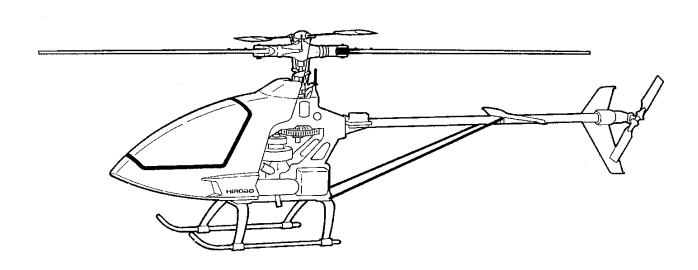
TSURUGI, that is the symphony of beauty and strength.

TSURUGI, that is the prize of victory.
TSURUGI, that is the proof of history.
TSURUGI will bring you at reast three types of merits,

reasonable cost, good flight performance, and aest-

hetical satisfactions.

ASSEMBLY & MAINTENANCE MANUAL



TECHNICAL DATA

Technical data

Main rotor diameter

Tail rotor diameter

Body length

Weight

(when fully equipped)

Engine

Most appropriate radio

to use

1,523mm (60.0 inch)

275mm (11.0 inch)

1,330mm (52.3 inch)

4,350g (9.57 lbs)

For 60~61

5ch radio for helicopter with

5-servo

Introduction



TSURUGI

We thank you very much for buying "Tsurugi". This is our ultimate R/C frame helicopter, into which Hirobo has poured all the know-how it has accumulated over ten years. So we named this very fundamental, boundlessly potential product of ours "Tsurugi", which means "Sword" in Japanese. This helicopter is designed so that anyone can operate it to make the most of its performance.

However, any complicated piece of machinery like "Tsurugi" can be very dangerous if improperly assembled. So please read this explanatory pamphlet thoroughly and make sure that you fully understand all instructions before you begin assembly.

In addition, please confirm that all parts are included as listed on the parts list before starting.

It is not the policy or practice of Hirobo to exchange or return parts after the package has been opened.

In case you discover any parts that might be defective or missing, please contact the retailer who sold you the product, get their signature on your Customer's Card and contact Hirobo's Sales Dept. with a description of the problem parts.

When making inquiries by telephone, please let us know the Handling No.

Technical data Main rotor diameter Tail rotor diameter Body length

1,523mm (60.0 inch) 275mm (11.0 inch) 1,330mm (52.3 inch) 4,350g (9.57 lbs)

Weight (when fully equipped)

The weight may vary a little with the weight of mounted servo or the

For 60~61

battery, etc.

Engine Most appropriate radio

5ch radio for helicopter with

to use

5-servo

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Caution

Please pay attention to the following warnings.

- Please bear in mind that helicopter's rotor is very dangerous because it rotates at a high speed.
- Fly your helicopter only where there are no other people
- While operating, you must be accompanied by someone who has had some experience with remote control helicopters.
- Radio waves reach a one-kilometer-distance. Please make sure that there is no one operating on R/C within your area of flight. (The same radio waves will cause interference unless you keep a minimum distance of two kilometers from other helicopter operators.)

ADDENDUM TO TSURUGI ASSEMBLY MANUAL

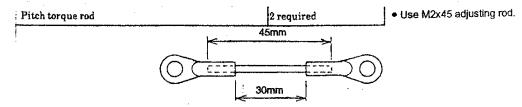
Please note steps outlined below for corrections in the assembly manual.

Page 11 - Installation of ø5 ball to control levers:

IMPORTANT1 If difficulty is encountered in tightening the M2x8PH screws to fasten the ø5 Balls to control levers, run a 2mm tap through the holes or enlarge them slightly with a drill or needle file. Do not use excessive force to tighten the screws since doing so may cause the screw to break in the plastic control levers.

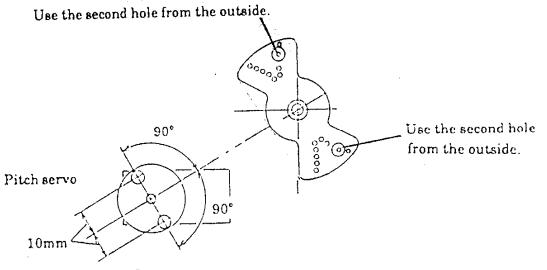
Page 19 - Pitch Torque Rod setup on bottom of page:

Use the following measurement reference for Pitch Torque Rod.

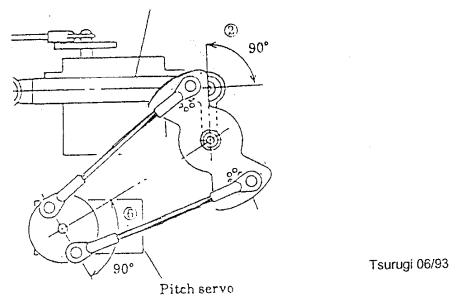


Page 21 - Collective Pitch Lever assembly:

Use the diagram below for Collective Pitch Lever setup.



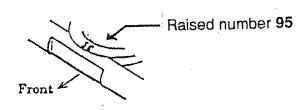
Page 31 - Collective Pitch Linkage Setup: Note the position of the Collective Pitch Linkages.



© 1993 Altech Marketing

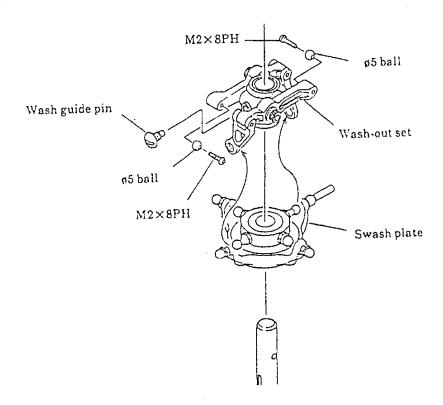
Page 10 - Main frame assembly -

When installing the two main rotor shaft bearing blocks and the bevel gear case, make sure that the side with the raised number 95 on it is pointed towards the front of the helicopter. The blocks must be installed this way to prevent any possible problems with the main gear and bevel gear meshing properly.



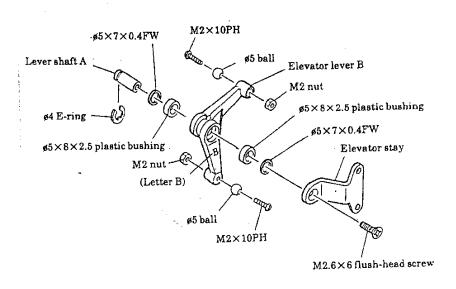
Page 17 & 18 - installation of rotor head, wash-out and swash plate

Before installing the main rotor shaft in Step 16, make sure that the wash-out set denoted in Step 17 freely slides up and down on the main mast. If the wash-out set is too tight, there is an easy and accurate way to make them fit. Insert the main mast into a drill press or an electric drill but do not clamp the chuck too tightly to avoid damaging the surface of the mast. Lightly oil the shaft and the inside surface of the wash-out set bushing. Turn on the drill and slide the washout up and down the main mast over the wash-out slot while the mast is spinning until the wash-out set slides freely on the mast.



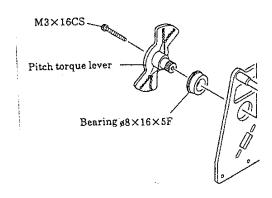
Page 11 - Lever assembly -

When attaching the M2.6 x 6 flush-head screw to the completed elevator lever B, the screw and lever shaft A must be secured with non-removable thread locking compound due to high stress placed on this assembly. Be sure that this assembly, especially the M2.6 x 6 flush-head screw, remains tight after each flight.



Page 14 - Installation of servo slide mount -

When attaching the pitch torque lever to the servo slide mount, you should apply slow-cure (1 hour) epoxy to the M3 x 16CS screw to hold it firmly to the servo slide mount. Be careful not to get glue into the bearings.

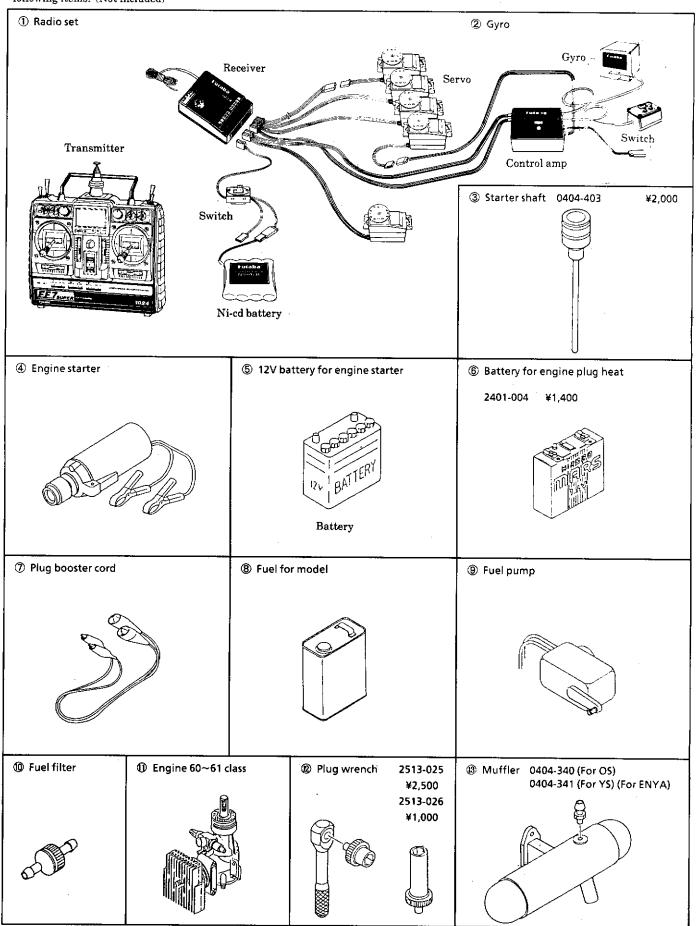


Page 31 - Adjustment of linkage -

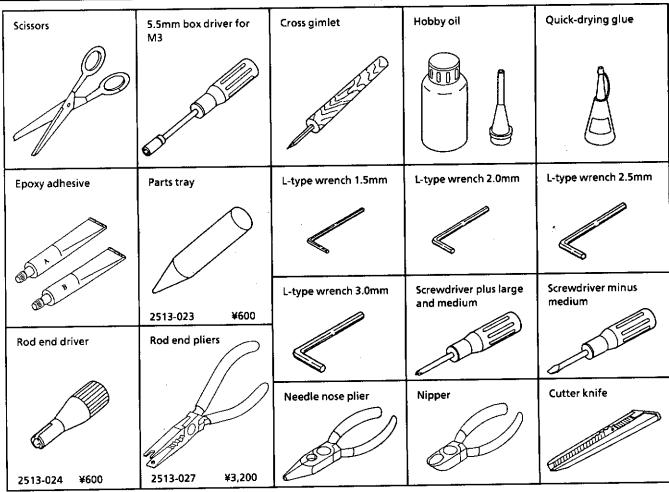
When using the stock main rotor blades, it is suggested that the main rotor head speed be limited to 1600 RPM for best performance and control. If you measure a higher head speed, you must increase the number of degrees for your collective pitch settings in order to reduce the head speed to an acceptable level.

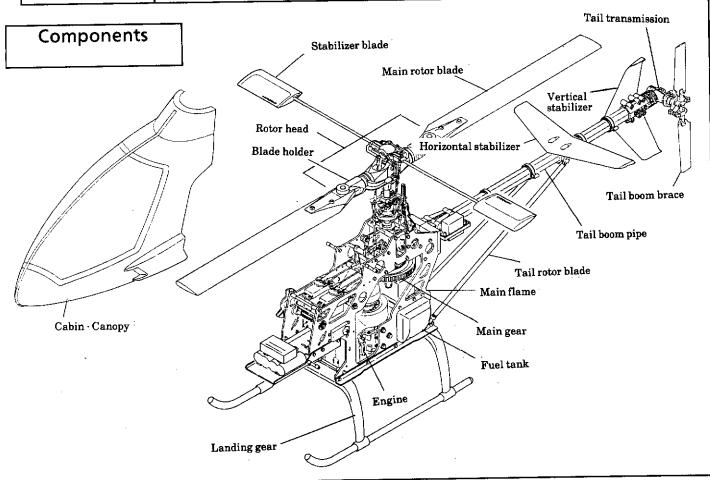
Necessary items not included in the "Tsurugi" kit (Not included)

In order to operate this machine you need to provide for the following items. (Not included)



Tools necessary for assembly



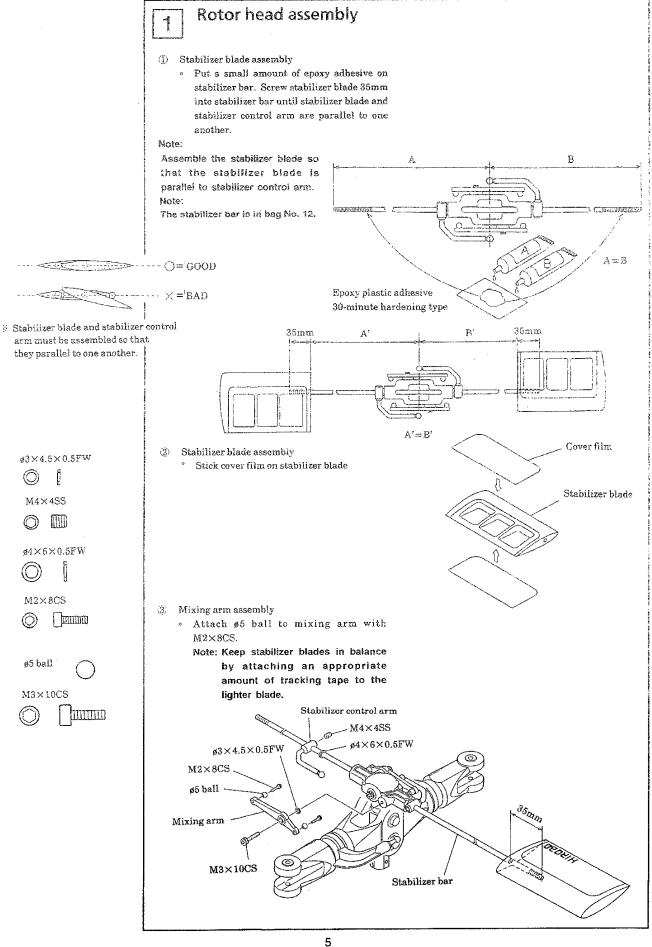


Screws & reading sizes

Symbols used in this explanatory pamphlet are indicated as follows.

• Unit of measurement-millimeters.

1	Cap screw	indication CS	7	Set screw	indication SS
	2.5mm 8mm ———————————————————————————————	M3×8CS Screw Screw diameter length		1.5mm~3mm 	M3×5SS Screw Screw diameter length
2	Pan-head screw	indication PH	8	Nut	indication Nut
	12mm 12mm 13mm	M3×12PH Screw Screw diameter length		3mm 5.5mm	M3 nut \ Screw diameter
3	Tapping screw 1	indication TS-1	9	Nylon nut	indication Nylon nut
	8mm	M3×8TS-1 / Screw Screw diameter length		0	M3 nylon nut Screw diameter
4	Tapping screw 2	indication TS-2	10	Flat washer	indication FW
	3mm	M3×10TS-2 Screw Screw diameter length		3mm 1mm	ø3×9×1FW Inner Outer Thickness diameter diameter
5	Flush-head screw	indication CSS	11	Bearing (straight)	indication Bearing
	10mm 10mm 3mm	M3×10 flush-head screw Screw Screw diameter length		3mm 4mm	Brg. 3×8×4 Inner Outer Full diameter diameter length
6	Flush-head tapping screw	indication CTS	12	Bearing (w/flange)	indication Bearing F
	10mm 3mm	M3×10 flush-head TS Screw Screw diameter length		3mm 3mm	Brg. 3×8×4F Inner Outer Full diameter diameter length



Pivot bolt (D)



Pivot bolt (E)



ø5 ball radius pin



 $M2 \times 8CS$



M3×8 flush-head screw

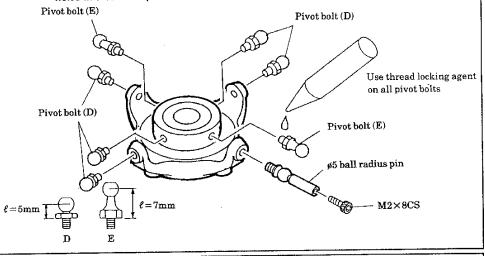




2 Swash plate assembly

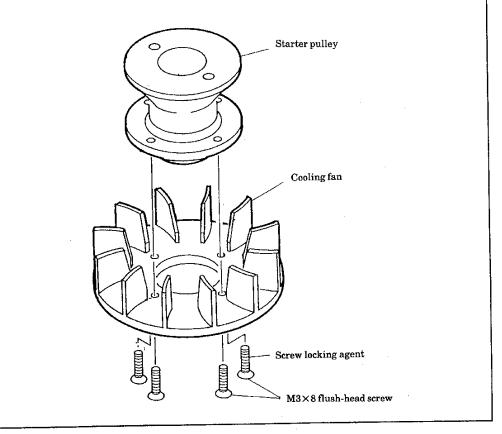
 Install pivot bolt (D), pivot volt (E) and ø5 ball radius pin to the swash plate body.

Note: If it is difficult to mount the pivot bolts into the swash plate, use an M3 cap screw to rethread the holes in the swash plate.



3 Assembly of cooling fan and starter puiley

 Install cooling fan to starter pulley with M3×8 flush-head screw. (Screw locking agent must be used.)



M4×10CS



ø5 ball

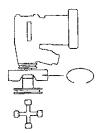
M2×10PH

M2 nut

(a)(b)(c)(d)<l

 $M4 \times 15CS$





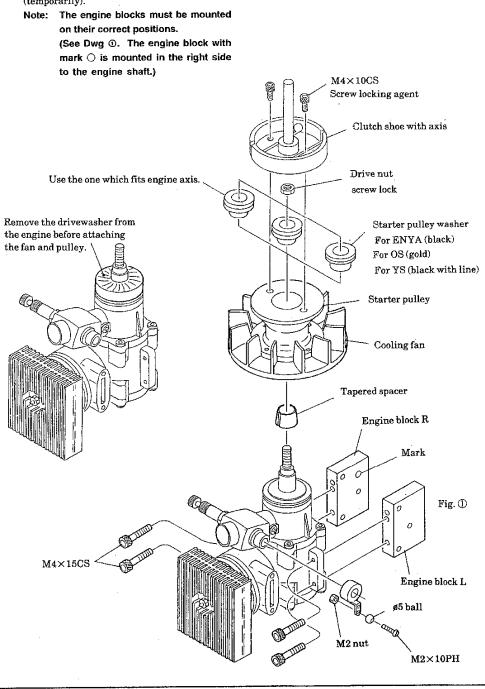
Clamp the pulley firmly without damaging the pulley or touching the fan when tightening the drive nut.

Engine assembly

- ① Remove drive washer and key which is attached to engine.
- ② Put tapered collar, starter pulley and starter pulley washer on engine axis and fasten them with drive nut which is part of the engine component.

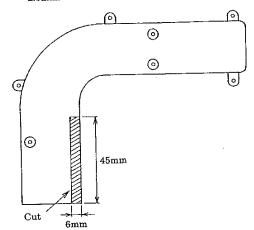
Note: There are three different sizes of starter pulley washers. Use the one that best fits the engine crankshaft.

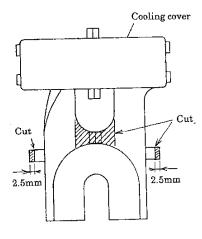
- ③ Install clutch shoe with M3×10CS.
- Install \$65 ball to throttle lever with M2×10PH and M2 nut.
- ⑤ Install engine mount with M4×15CS (temporarily).



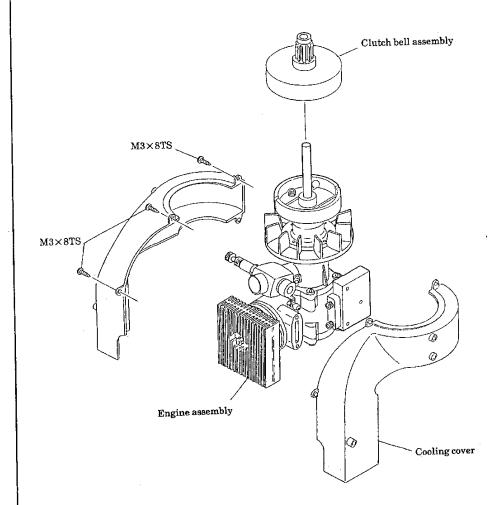
5 Installation of cooling cover

- ① Cut the cooling cover to clear the carburetor as shown below.
- ② Cut cooling cover at its R and L boss areas by 2.5mm.





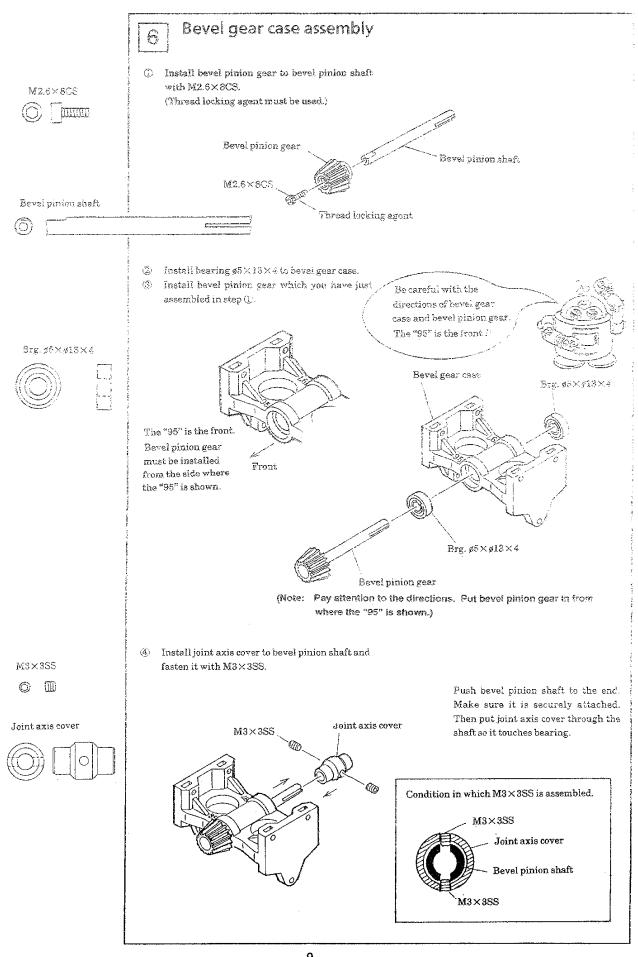
(Note) When the 0404-340 or 0404-341 HIROBO muffler is used, cut away the shaded portion of the cooling cover.

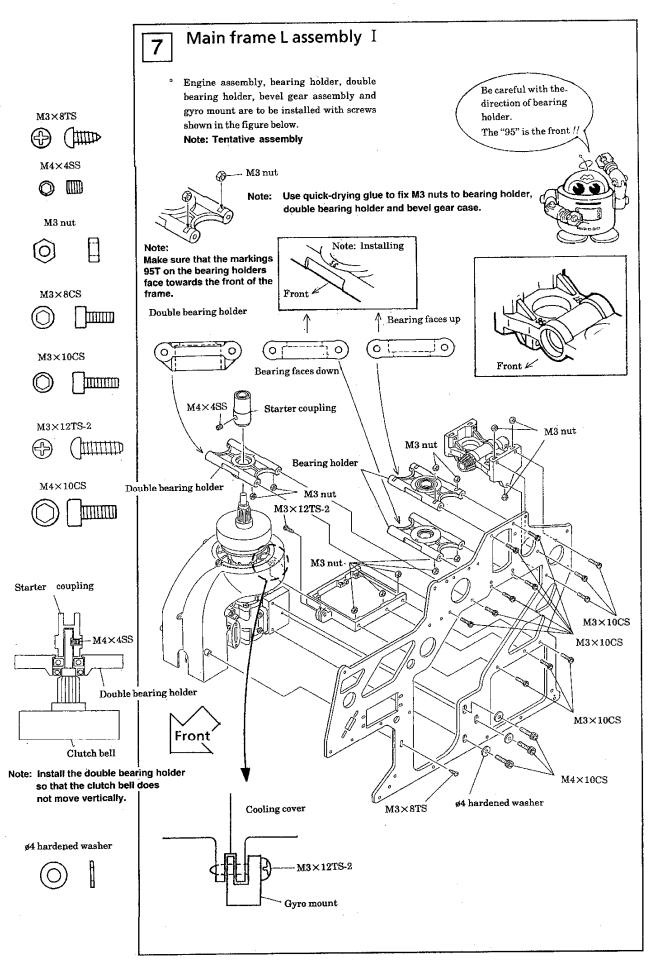


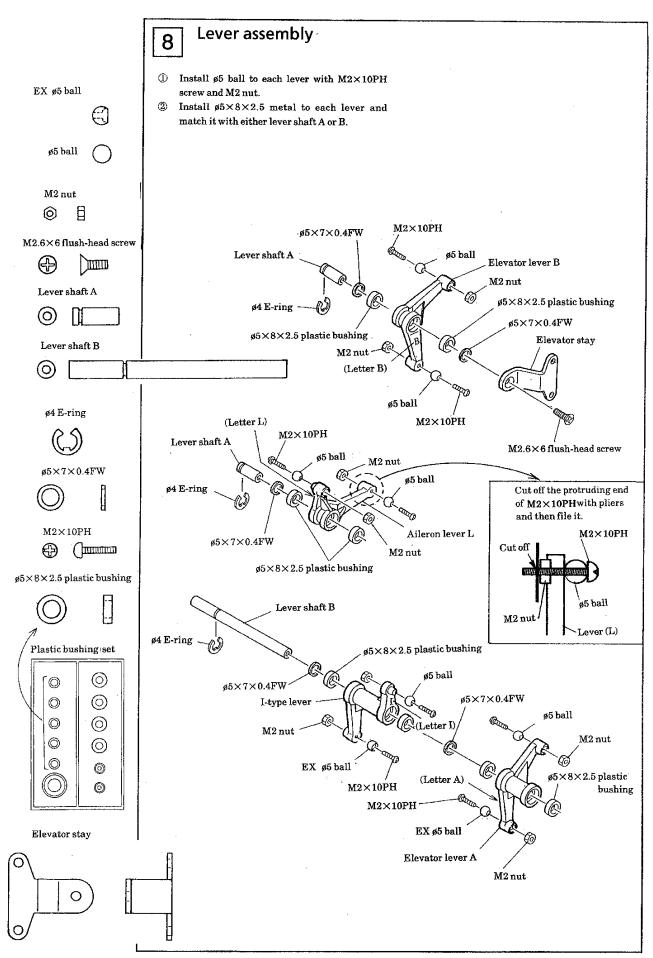
M3×8TS











Main frame L assembly ${\rm I\hspace{-.1em}I}$ 9 ① Install each lever to main frame L with screws shown below. Install engine-control servo with screws shown M3 nylon nut ø5×7×0.4FW M3×10CS Engine-control servo Servo attaching nut M2.6×8CS $M2.6 \times 14TS$ ø2.6FW



Servo attaching nut

ø2.6FW

M2.6×14TS

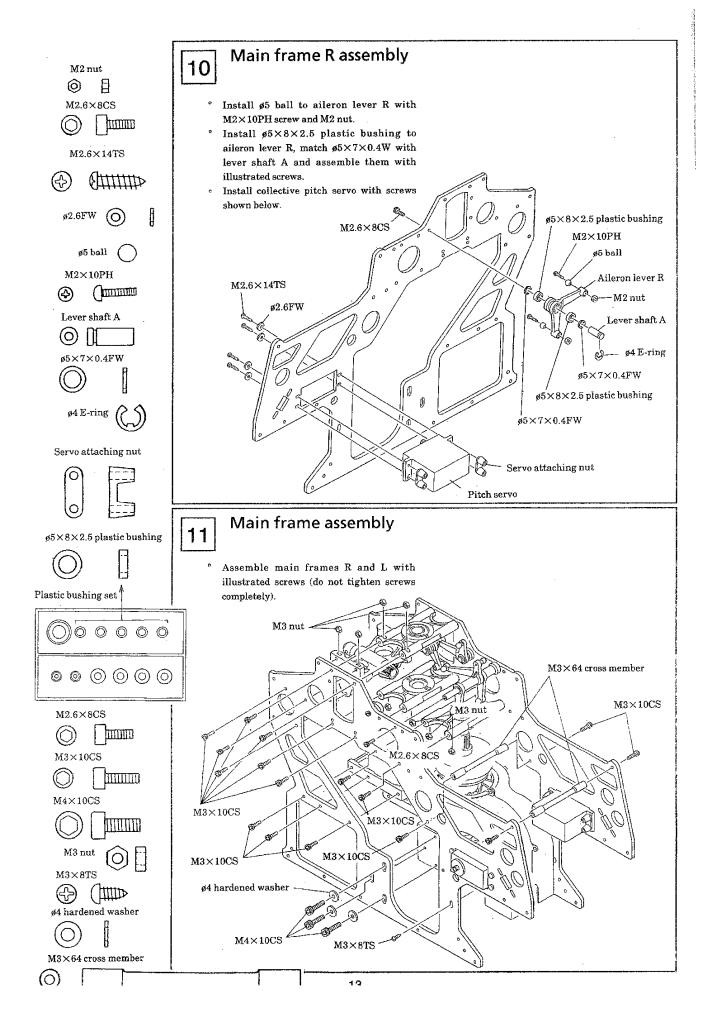
 $M2.6 \times 8CS$

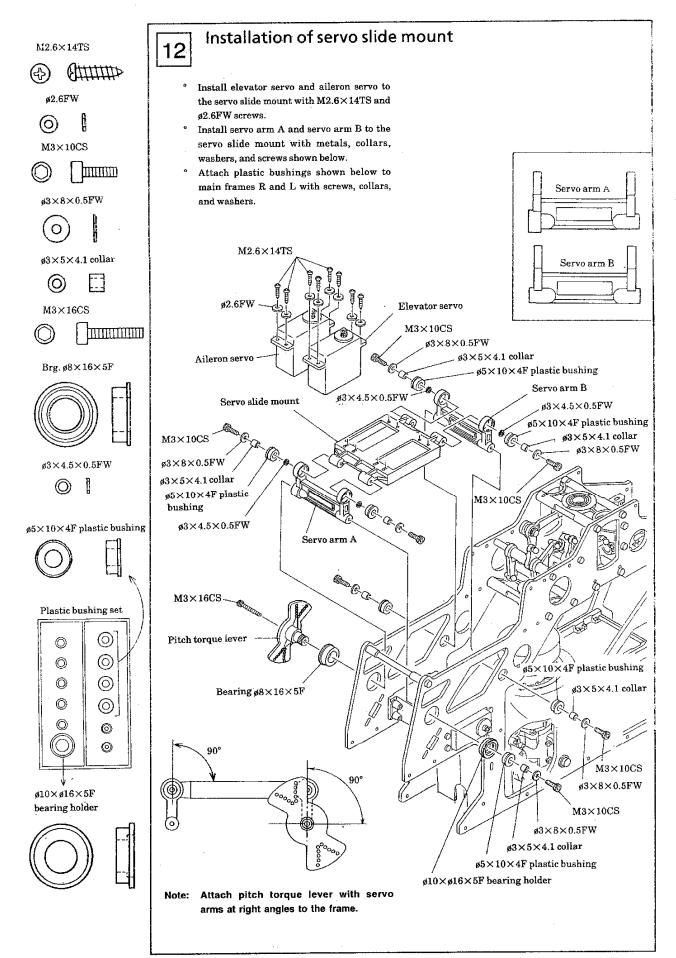
 $M3 \times 10CS$

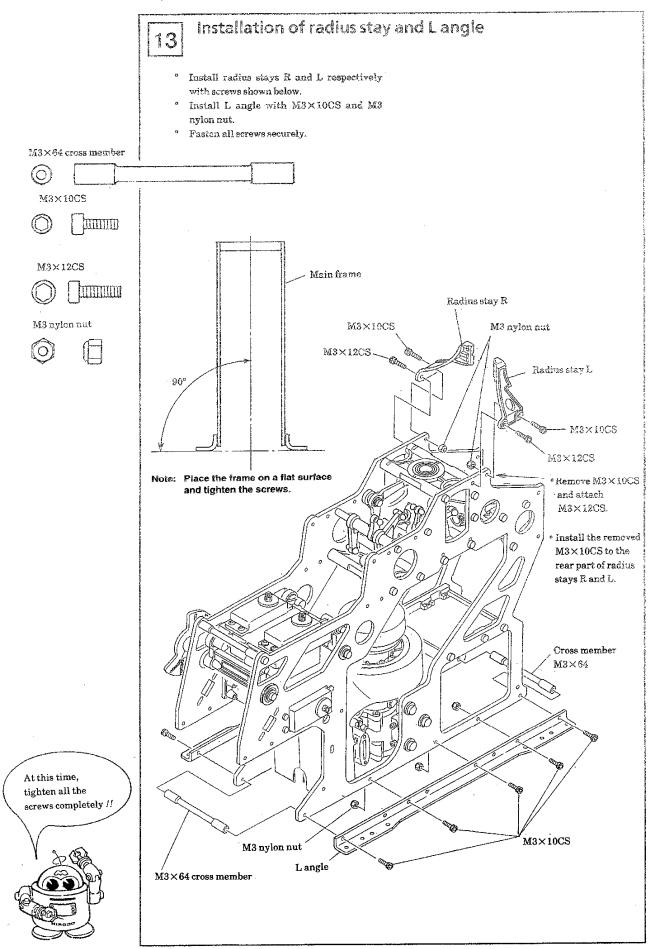
M3 nylon nut

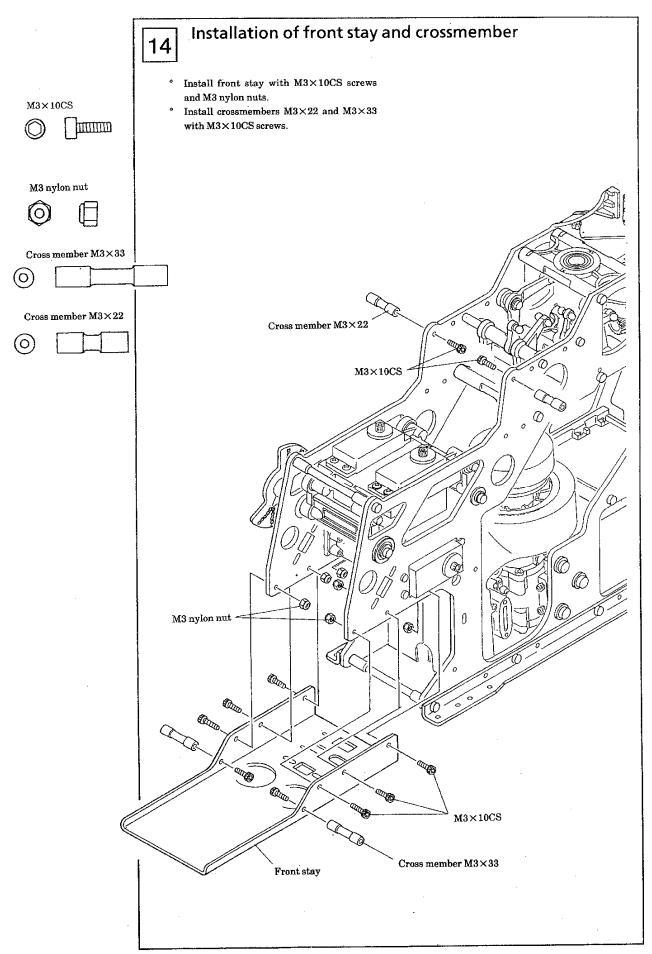
ø5×7×0.4FW

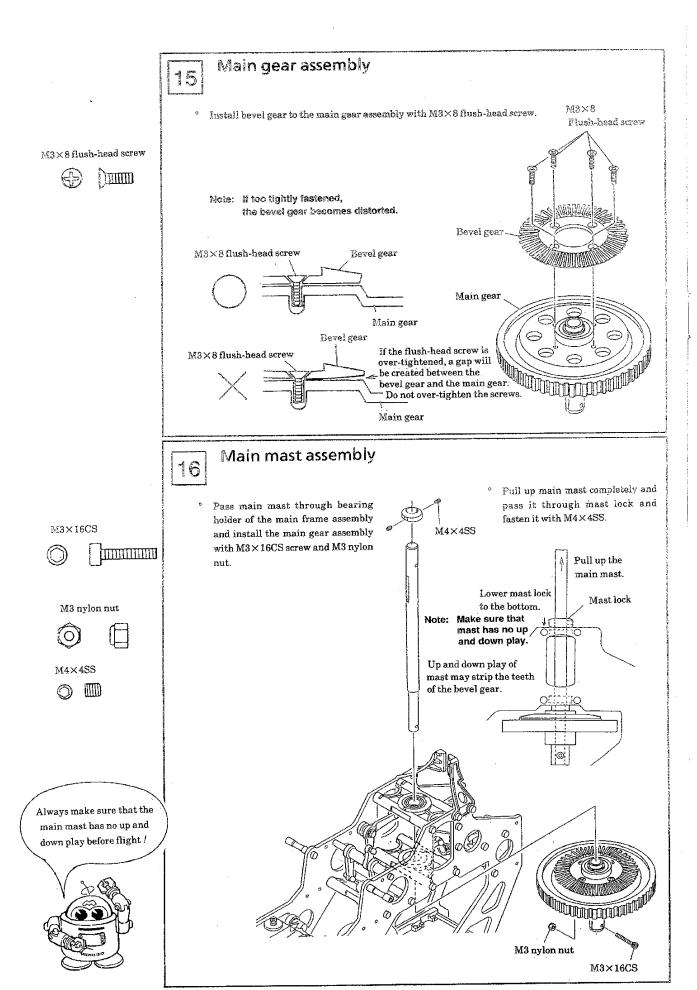
ATTITES











17

Installation of rotor head, wash-out, and swash plate

M3 nylon nut





 $M2 \times 10PH$





 $M3 \times 20CS$





Washout guide pin

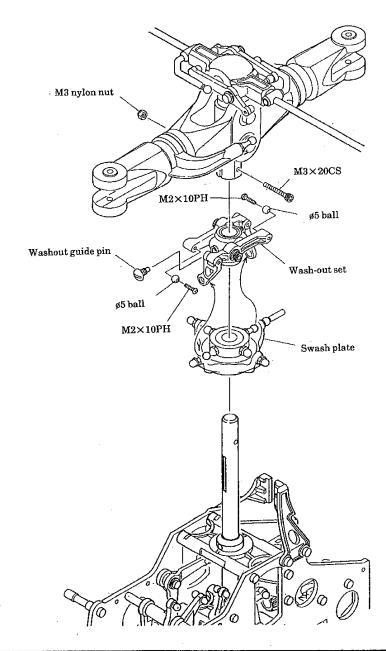


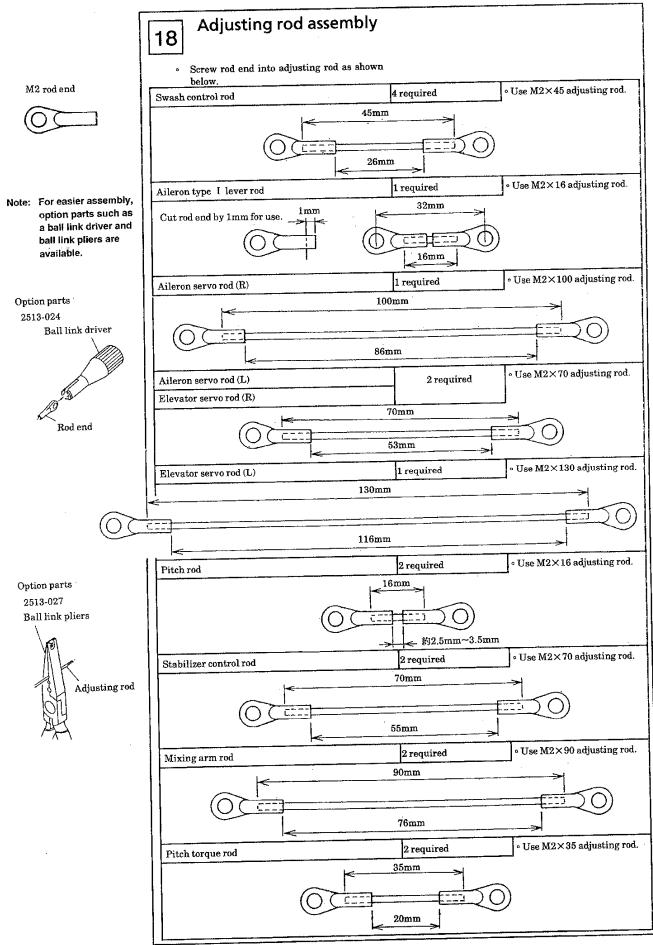


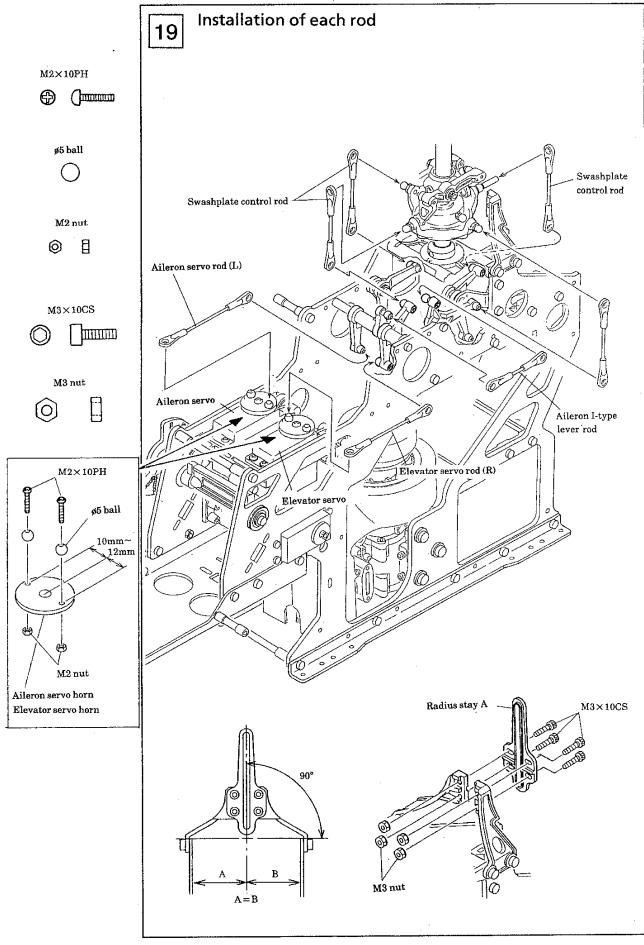
ø5 ball

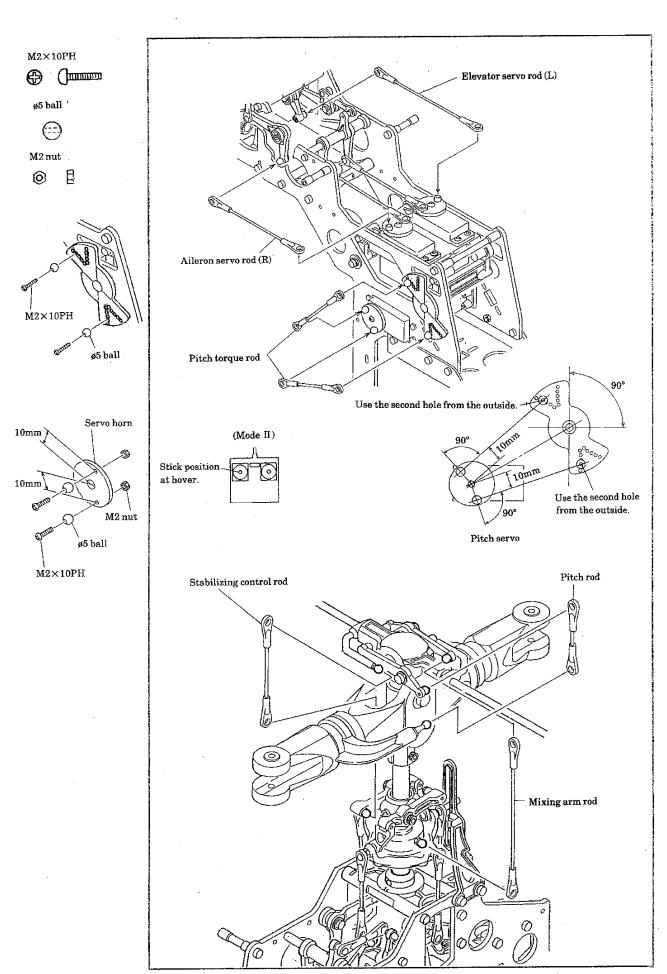


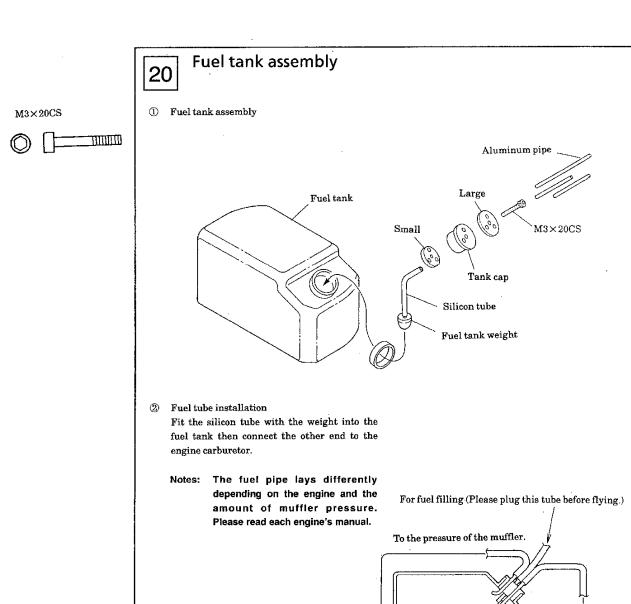
- Install \emptyset 5 ball to wash-out with M2×10PH screw.
- Pass main mast through swash plate, washout set, and rotor head.
- Be sure that the washout guide pin engages the groove in the main mast.
- Install rotor head with M3×20CS screw and M3 nylon nut.

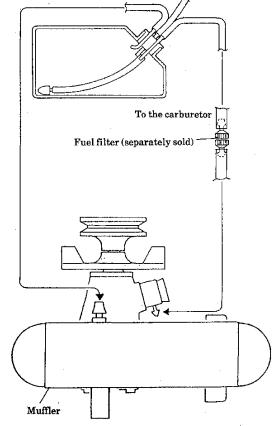


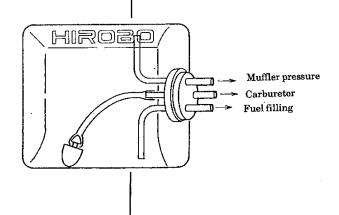


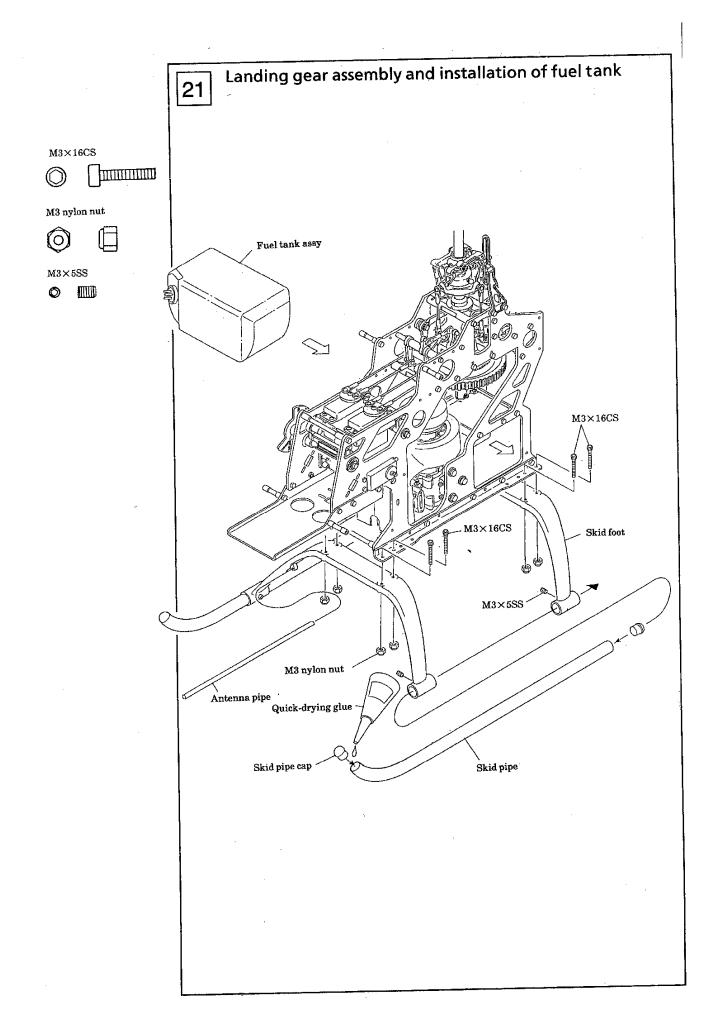


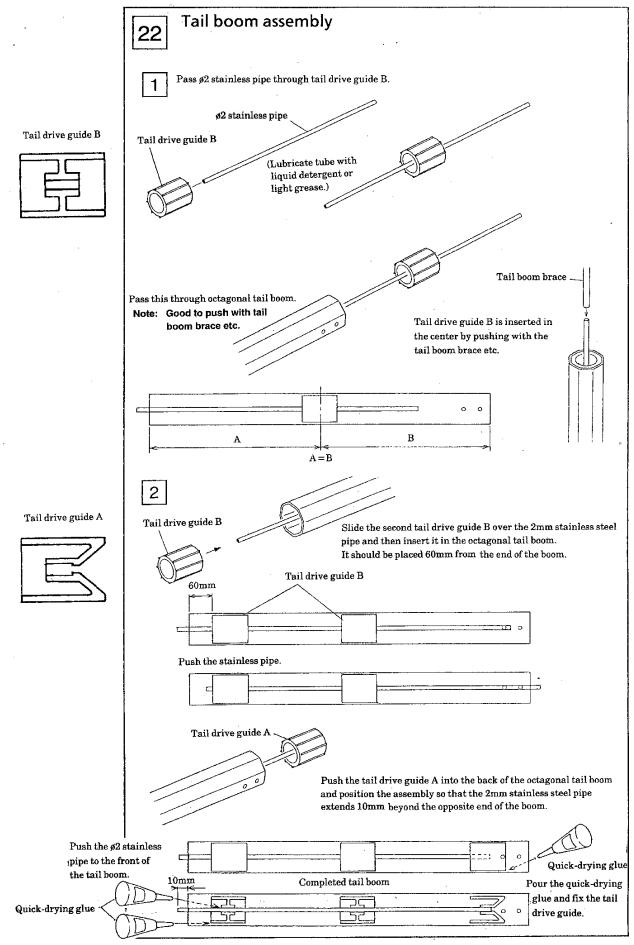


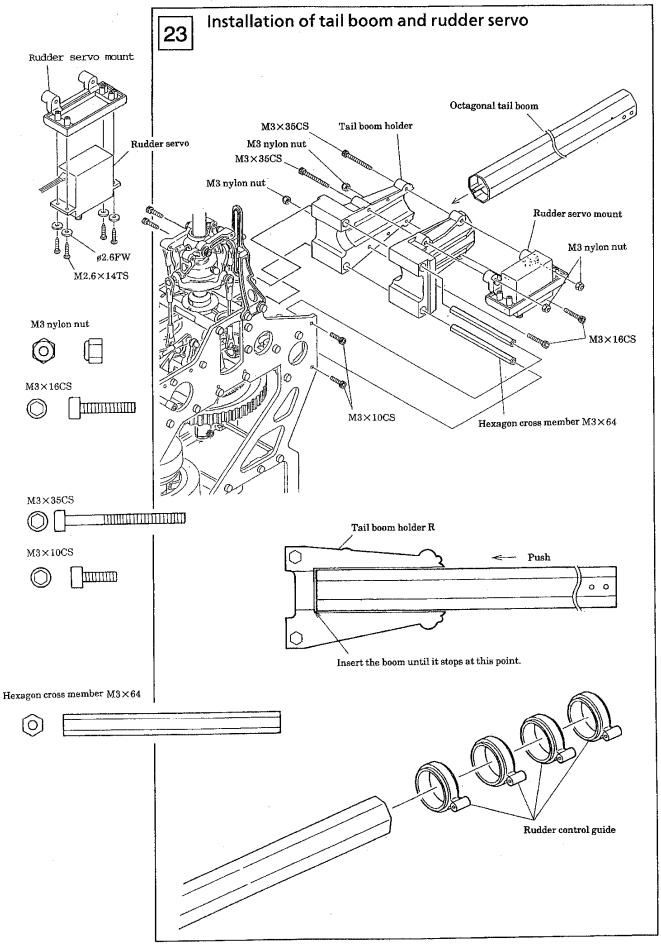


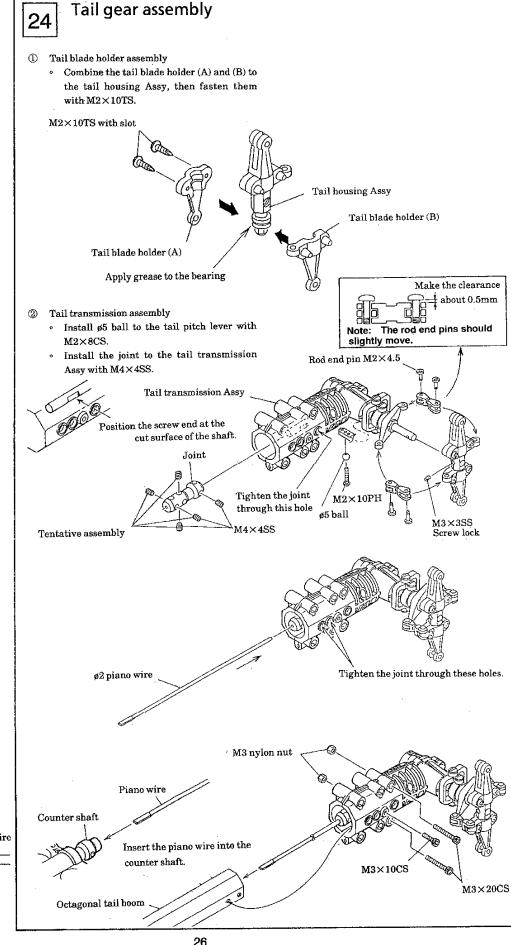












 $M2 \times 10 TS$ with slot

 $M2 \times 10 PH$ Rod end pin $M2 \times 4.5$



 $M3 \times 3SS$



 $M4 \times 4SS$



ø5 ball



M3 nylon nut



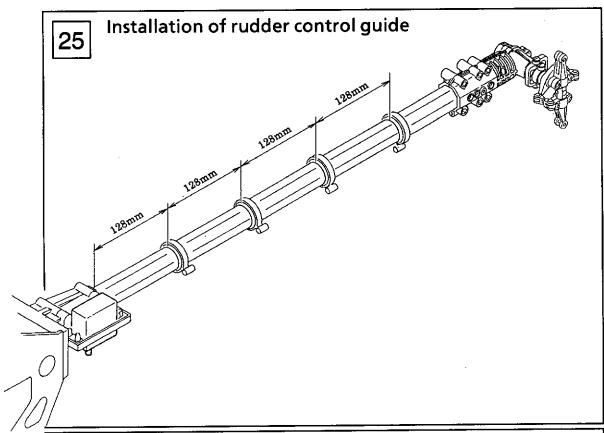


M3×10CS





Counter shaft Piano wire Bevel pinion shaft



M3×10CS

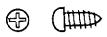
M3 nylon nut

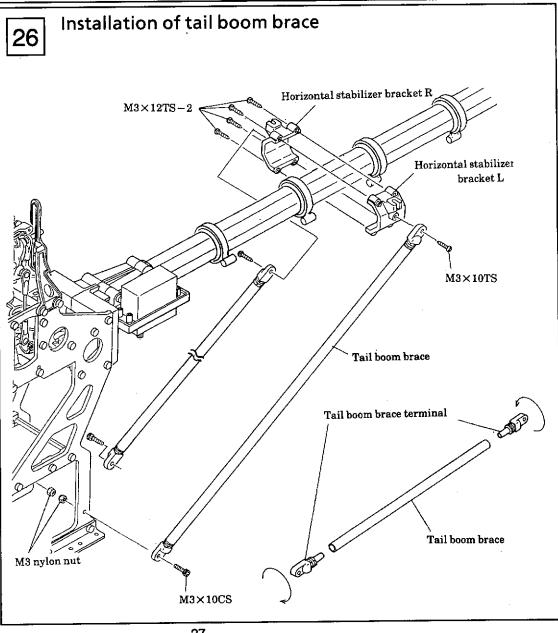


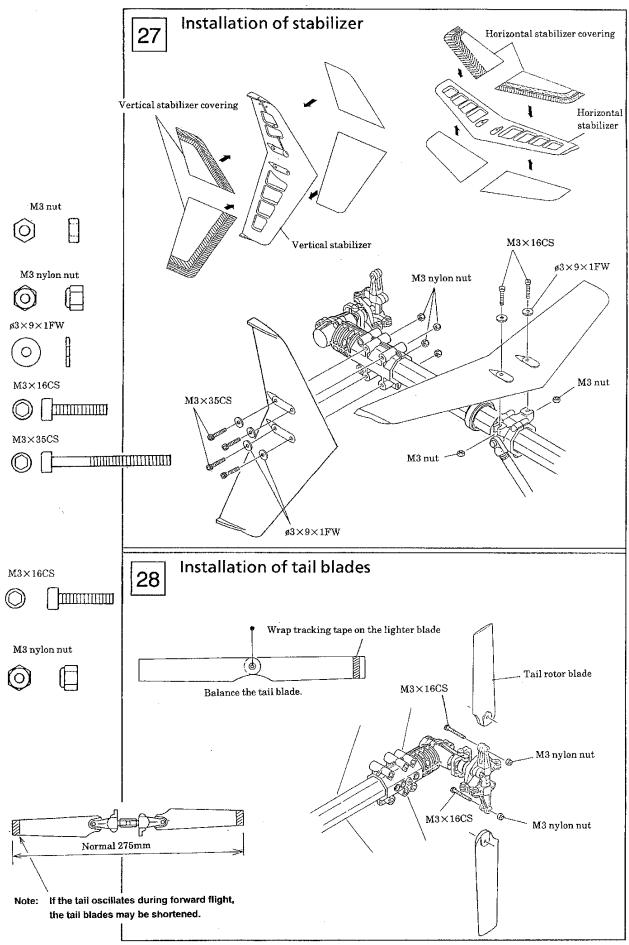
 $M3 \times 12TS - 2$

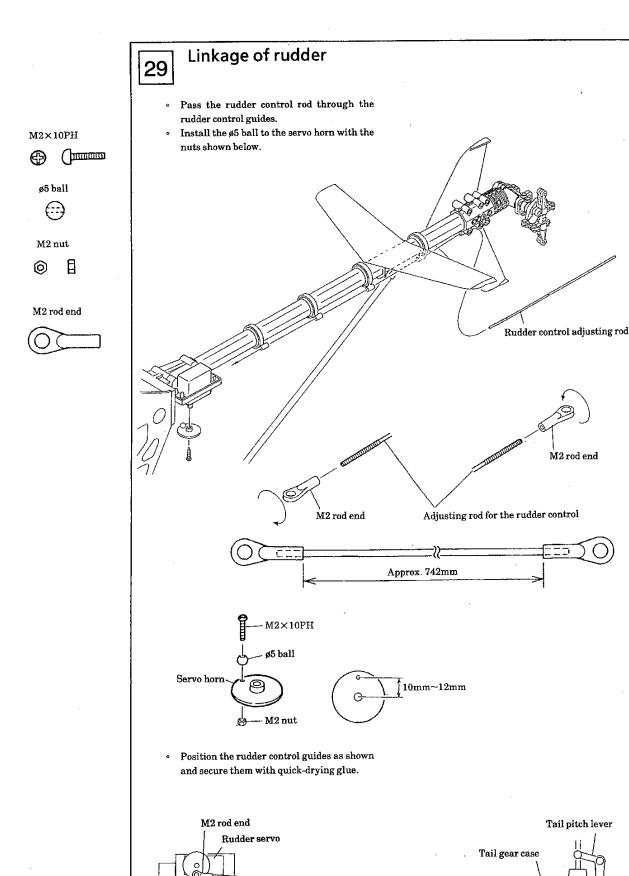


 $M3 \times 10TS$









⊢Glue

-Glue

Rudder control guide

← Glue

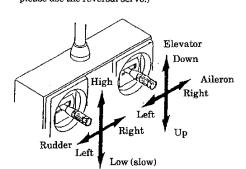
M2 rod end

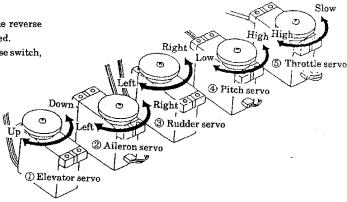
30

Transmitter and servo setting

 $\ \, \textcircled{1} \quad \ \, \textbf{To confirm that the servo (mode } \ \, \textcircled{1} \textbf{1} \textbf{)} \ \, \textbf{works, turn on switch after}$ connecting transmitter, receiver, and servo. Then confirm the direction of rotation of the sticks and the servo.

When the direction of rotation is incorrect, change the reverse switch of the transmitter and set it to move as designated. (In the case of using the transmitter set without a reverse switch, please use the reversal servo.)





Installation of gyro

Throttle & pitch

· Affix the gyro to the gyro-mount with two layers of double coated adhesive tape.

Be careful of the direction about installation.

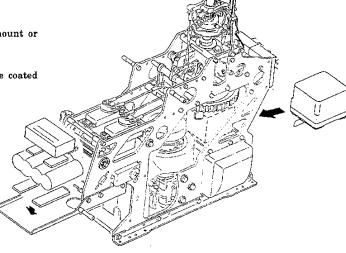
The details are shown in the manual of the gyro. Installation of receiver and gyro-switch

Install the switch, as desired, to either servo mount or mechanical plate.

Installation of battery and receiver

Install them to the mechanical plate with double coated

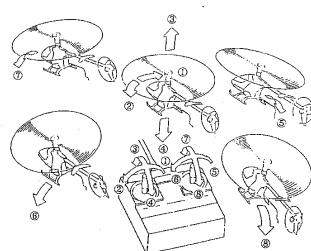
Fix the servo cord, etc. with the attached unity band.



Basic operation of sticks

Basic operation of sticks of Tsurugi is the same as the large-sized R/C helicopter.

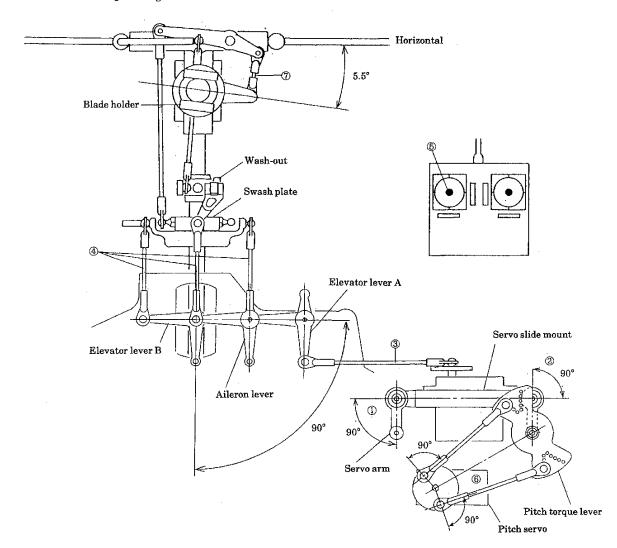
- ① Rudder
- Right
- Rudder
- Left
- Engine-control High **(4)**
 - Engine-control Slow
- (5) Aileron
- Right
- 6 Aileron
- Left
- 7 Elevator
- Down
- Elevator
- Up ,



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Adjustment of linkage

Linkage during hovering

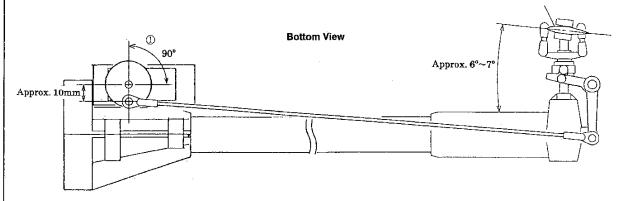


- ① Position the servo slide at right angle to the servo arm.
- ② Mount the pitch torque lever parallel to the servo arm.
- 3 Keep elevator levers A and B, and aileron lever $R \cdot L$, at right angles (Adjust with four pieces of linkage 3).
- Position the swash plate parallel to the frame. (Adjust with four pieces of rod

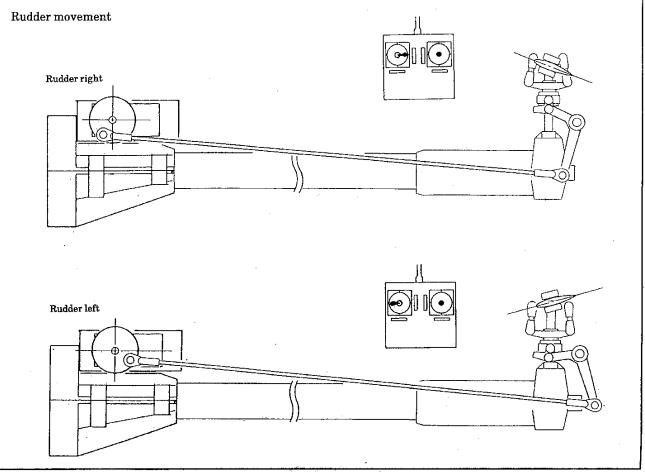
).
- 5 Turn on the transmitter switch and keep the serve of the pitch in neutral.
 - Set the transmitter stick at half throttle.
- Set up the servo horn as shown in figure 6.
- Set up the blade holder at 5.5° with the pitch gauge.
 (Adjust by the pitch rod ⑦)



Tail rotor blade

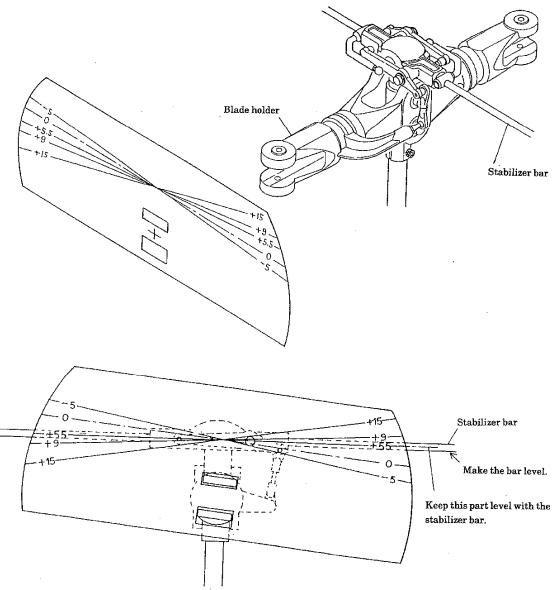


- $\ensuremath{\mathbb{T}}$ Turn on the switch of the transmitter, and set the rudder servo at neutral.
- ② Set up the tail blade between 5° and 6° with M2 rod end.
 Note: The tail rotor pitch may require readjustment during flight testing depending upon main rotor speed.



Using the pitch gauge

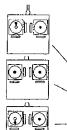
① Put the pitch gauge into the blade holder of the rotor head Assy.



- $\ensuremath{\mathfrak{D}}$ The flybar should be parallel to the tail boom and perpendicular to the main shaft.
- Seferring to the table below, set the stabilizer bar to each pitch gauge line, and read the pitch.
- Use transmitter adjustments to align the desired line on the pitch gauge with the stabilizer bar at the correct stick setting.

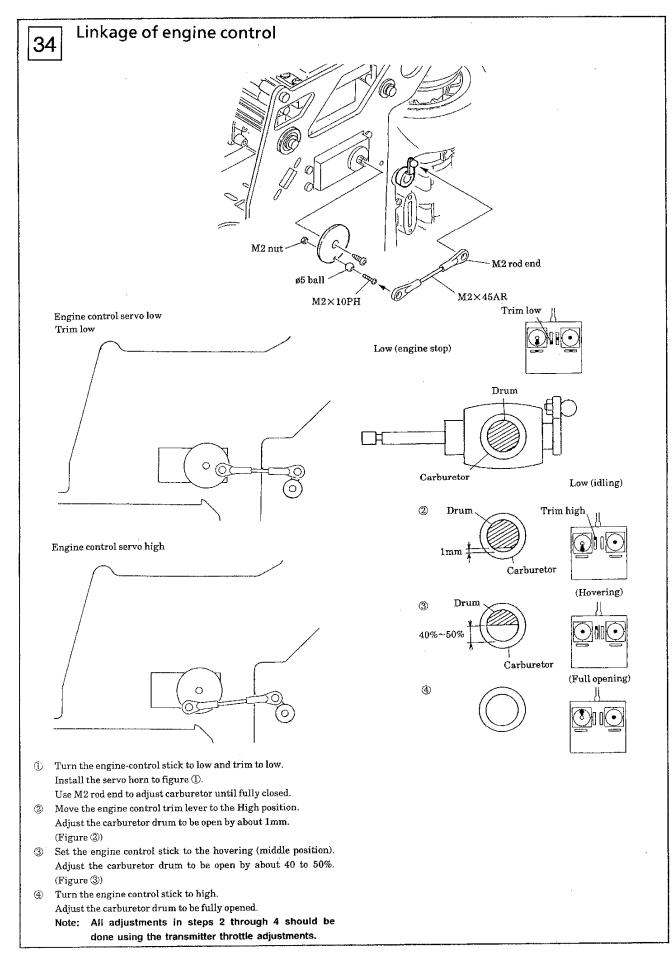
Pitch setting (This data is available when the

X The pitch depends on the engine fuel, muffler, etc.
The standard value is indicated.

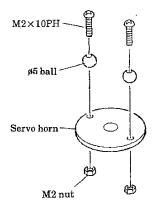


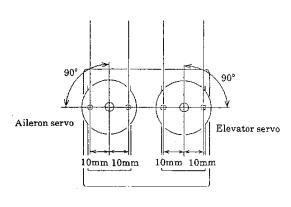
Pitch stick	Pitch stick Hovering Idle (Idle UP 2	Auto-rotation			
High pitch	13°	9°	9°	15°			
Hovering	5.5°	. 5°	5°	5.5°			
Low pitch	Minus 3°	Minus 3°	Minus 5°	Minus 5°			

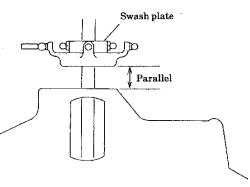
Pitch curve setting Hovering Idle UP 1 Stick high Hovering Stick low Idle UP 2 Auto-rotation (Notes) This setting shows general pitch curve. (Computer transmitter) Difference will sometimes occur by the engine or the body. Adjust it by flying.

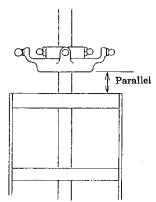


Linkage of aileron and elevator

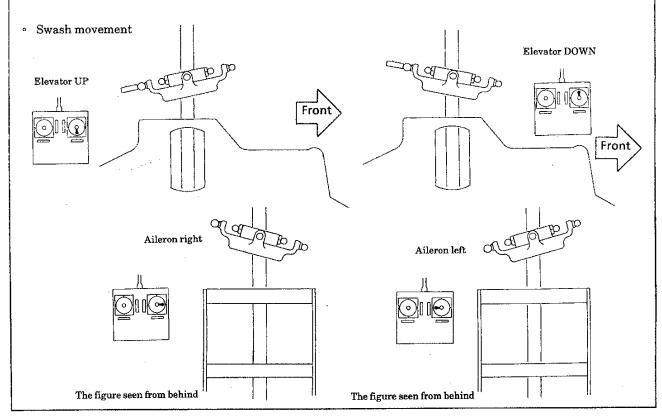






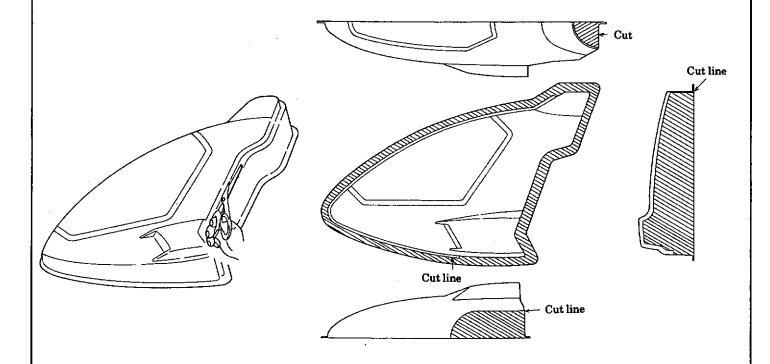


- ① Make \$\psi2\$ holes on the servo horn of aileron servo and elevator servo 10mm from the center, and then install \$\psi5\$ balls using \$M2\times10PH M2 nuts.
- ② Adjust the swash plate in parallel using M2 rod end.



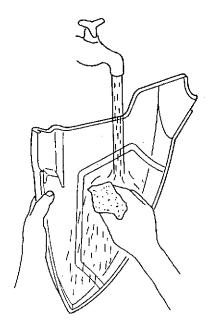
Cabin assembly

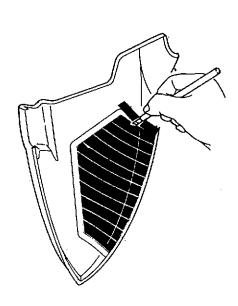
① Cut to the right and left of a cabin after putting cut line together.

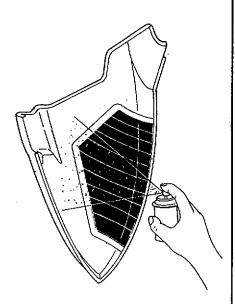


- ② Wash the cabin with the detergent.
- 3 Mask the wind shield with the masking tape.
- Coat with paint used for polycarbonate.

Note: Coat from the back.

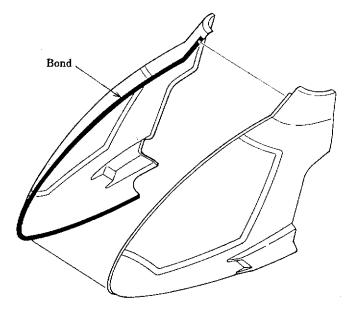




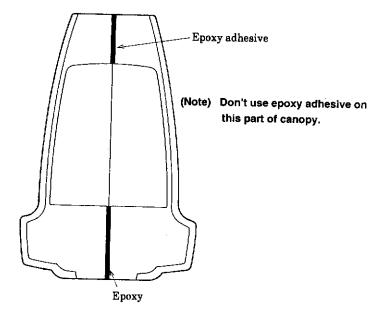


Note: After the coating has dried, remove the masking tape.

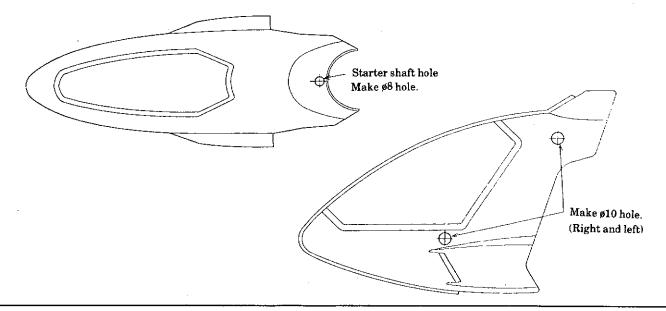
⑤ Glue flange into cabin with the clear-bond (used for the rubber and plastic).

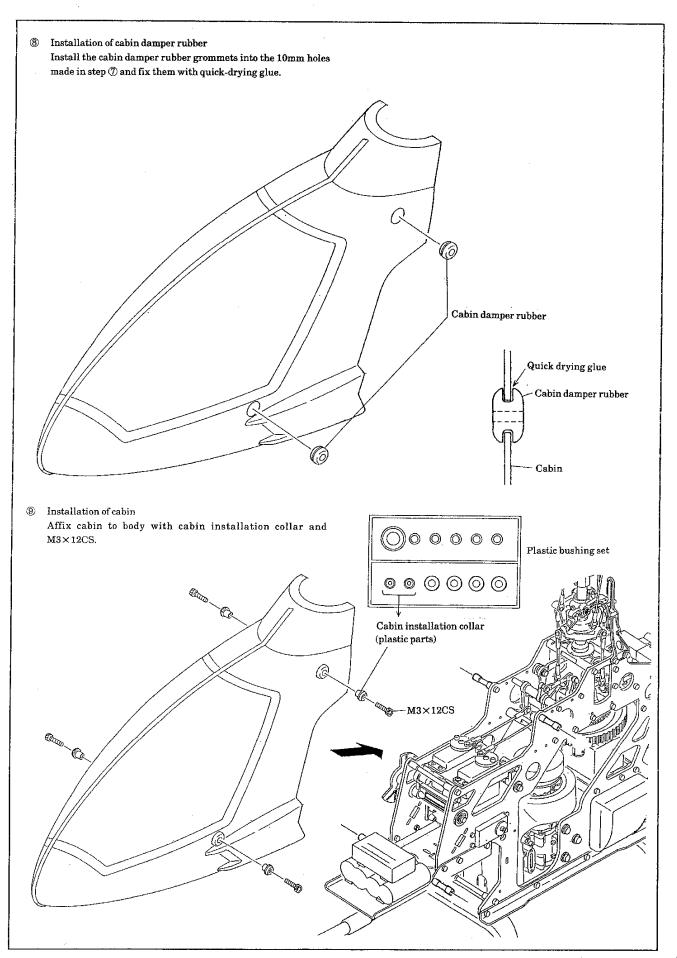


6 Glue epoxy-type adhesive to adhesive parts of back sides of cabin.



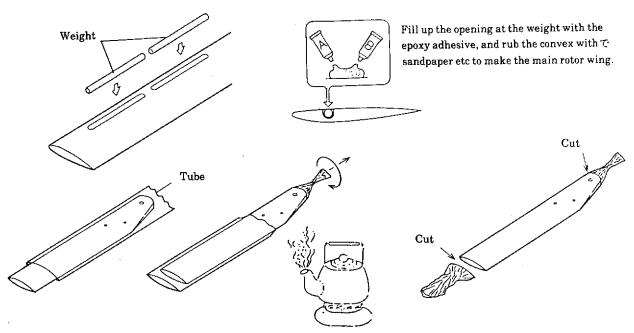
The Hole for the cabin installation & starter shaft processing



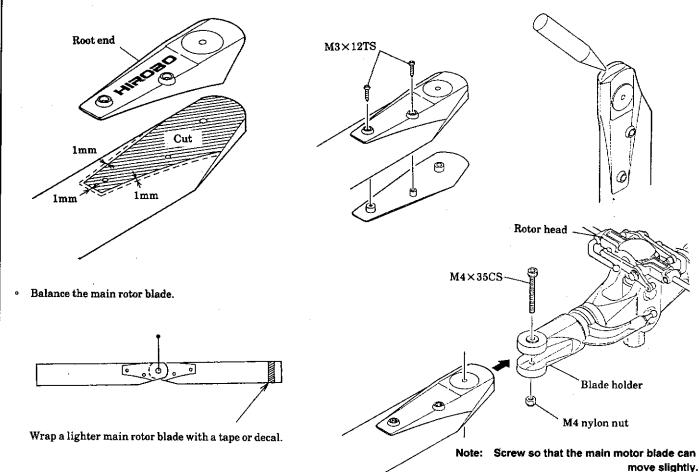


37 Main r

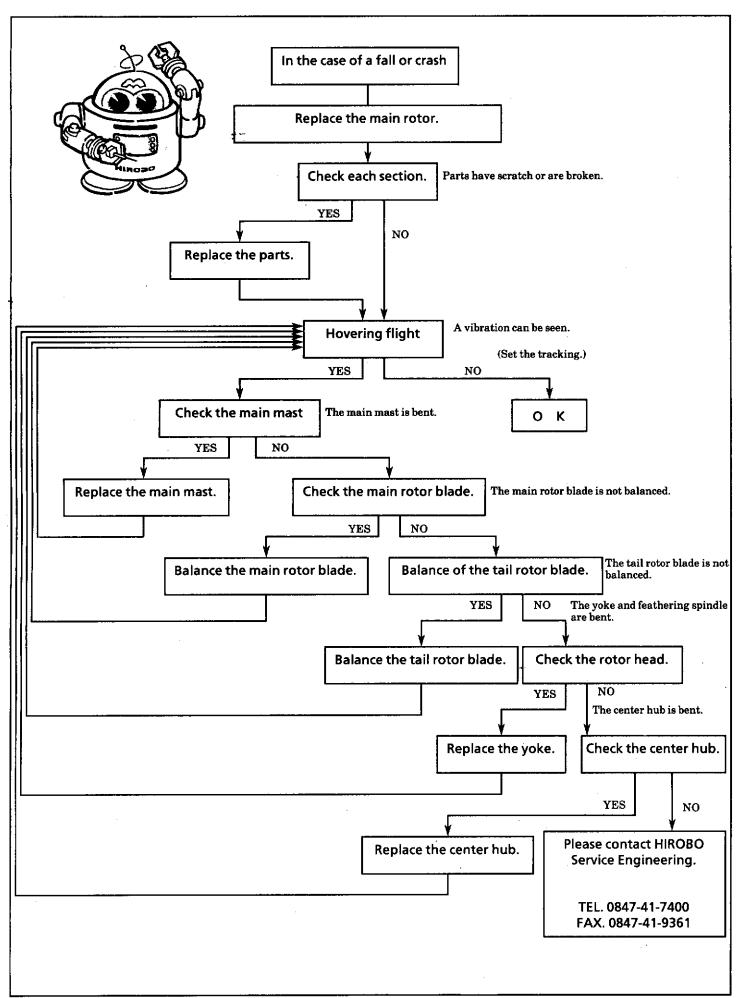
Main rotor assembly



- Install the root end to the main rotor blade.
- Mark with a ball point pen etc at the outer circumference of the root end. (On both sides)
- Cut the tube with the cutter knife at about 1mm inside of the mark. (From both sides)
- Screw the root end with M3×12TS.
- · Glue the root end with an quick drying glue.
- Before the quick drying glue is hardened, insert the root end into the blade holder of the rotor head so that there is no opening between the root end and main rotor blade.



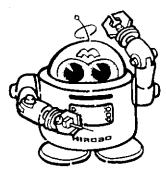
Maintenance

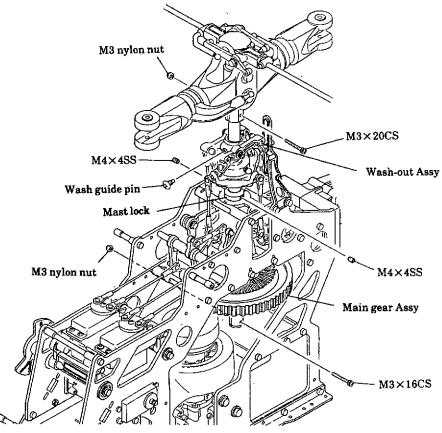


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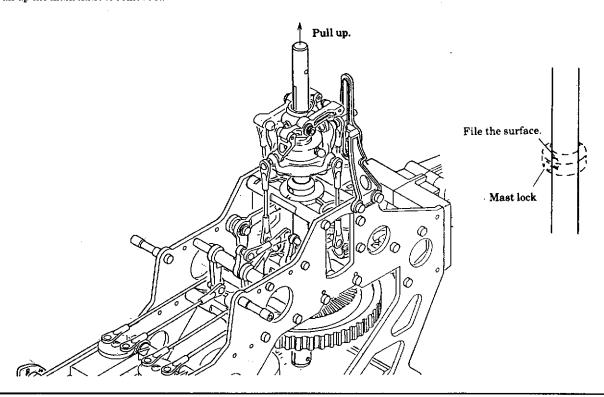
Replasement of main mast

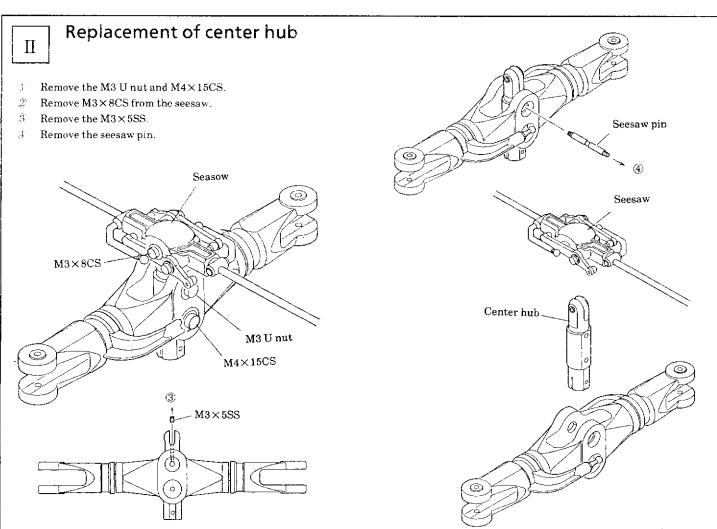
- Remove the M3×20CS and M3 nylon nut from the rotor head assembly.
- 2 Remove the wash guide pin.
- 3 Remove the main mast lock M4×4SS.
- 4 Remove the main gear assembly, M3×16CS, and M3 nylon nut.

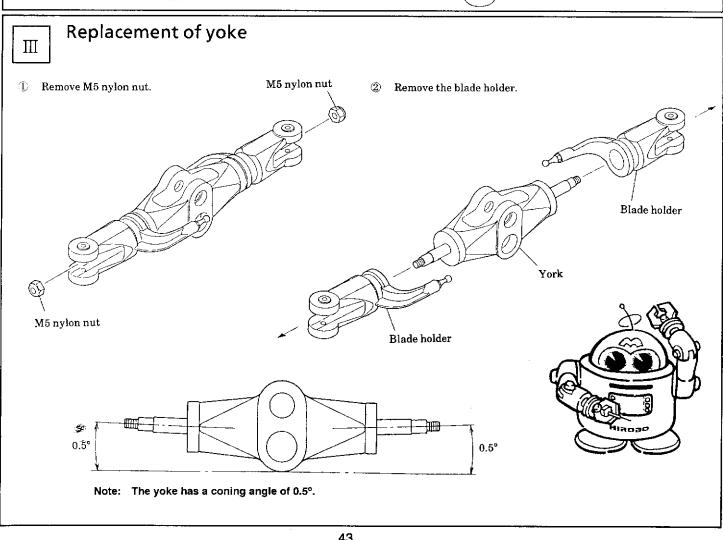




- ⑤ On the main mast, there is a flaw when the mast lock is installed. File the surface.
- ® Pull up the main mast to remove it.







Note for safety

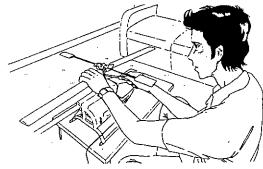
HIROBO LTD. shall have no liability or obligations whatsoever at any time for any personal injury or property damages or for any special, indirect or this product.

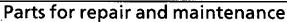
If you are new to R/C helicopter flying, please seek the assistance of an experienced R/C helicopter flier. Since a R/C helicopter is a highly complex machine, a mistake in construction or initial adjustment could result in a integrity of the machine.

A R/C helicopter flown by an expect appears quite innocuous. However, due to the high main rotor head speed sued, a potentially lethal situation does exist.

Fly only in designated areas and never near or above spectators. It is highly recommended to join a local R/C modeling club and to purchase liability insurance through the national organization.

For further details please contact the shop where you bought your helicopter.





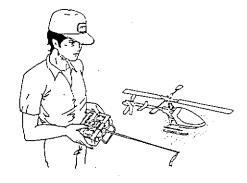
<Purchase of parts>

If parts of your helicopter are missing or damaged, please but them at the shop where you purchased your helicopter. Please tell your healer the part numbers and the names of the parts. If it is difficult to obtain replacement parts, please place an order for parts directly to Sales Department of HIROBO LTD., or your country's distributor, with remittance including freight charges. Please state your name, address, zip code and telephone number together with the necessary parts No., name and quantity. If your order covers more than two kinds of parts at the same time, only the fright charge that is the highest among the parts is to be paid. All the other freight charges are free.

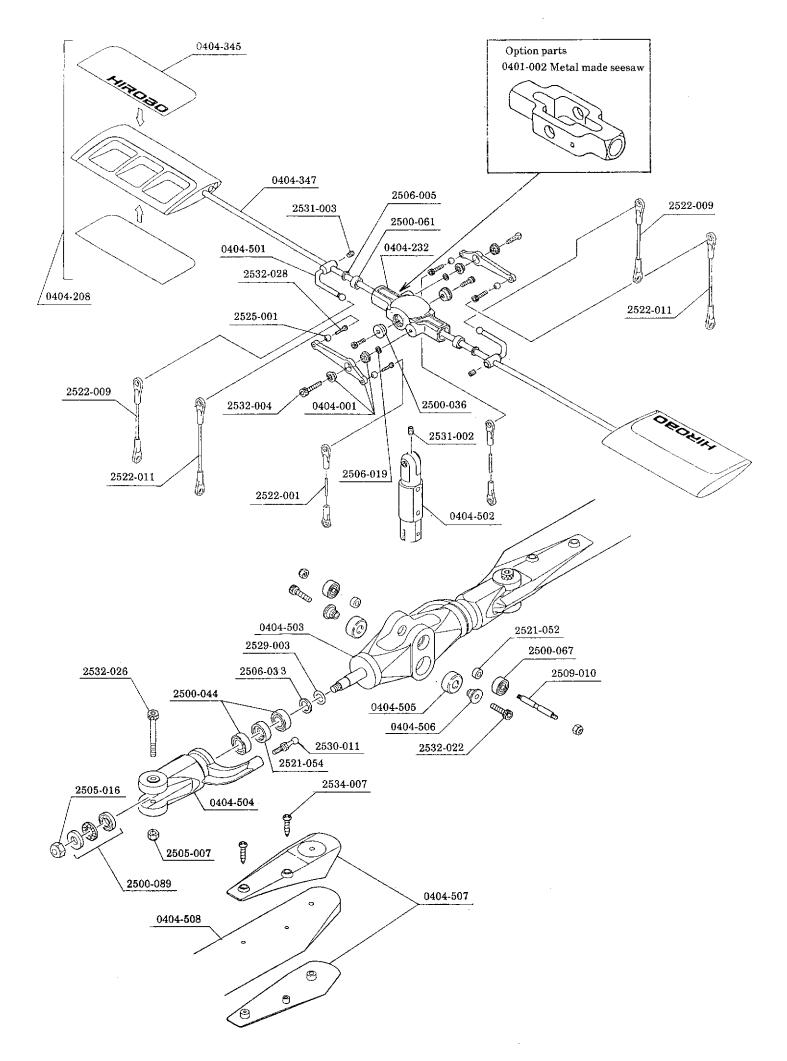
- The freight charges herein are based upon the current rate of Jun. 1, 1990. They are subject to change.
- The consumer tax is not included in the indicated price. Remit the amount of money (Parts list × 1.03 plus postage). (Decimals and to the next whole number is rounded off.) Sales Department, HIROBO LTD.

530-214, Motoyama-cho, Fuchu City, Hiroshima 726 JAPAN Telephone: 0847-41-7400 Fax: 0847-41-9361 Telex: 645760

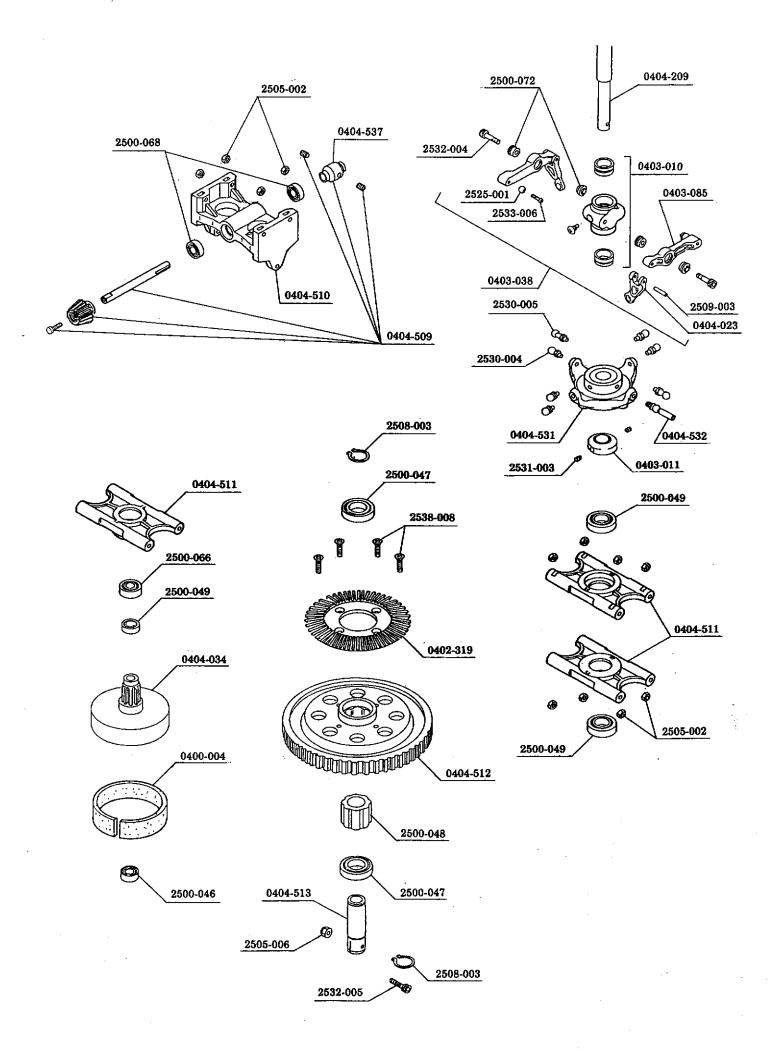
Order example								
0404-508	Main motor blade							
0404-050	Octagonal tail boom pipe L=735							
0404-209	Main mast L=178							



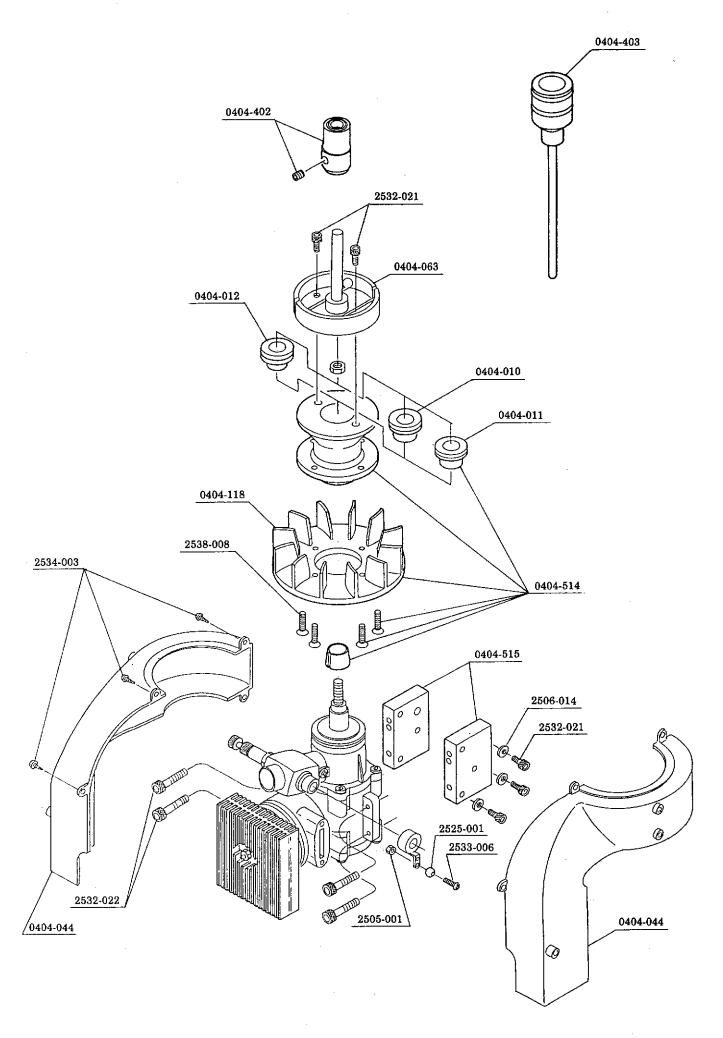
	Price			Freight charge
2 sets	4,500	=	9,000	1,000
1 set	1,600	=	1,600	800
2 sets	1,000	=	2,000	360
	Total (-	×1.03)+1 ¥13.978	,000



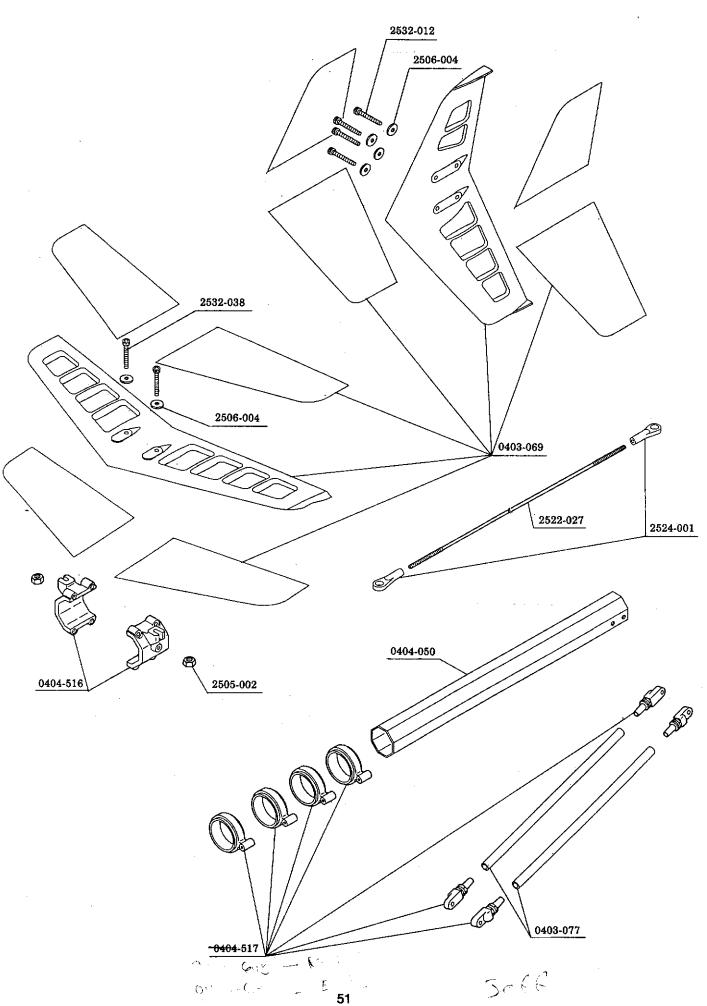
Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0401-002	Seesaw (Metal made)				***
0404-001	Mixing arm (With bearing)	1			
0404-208	10.1111 11.100	2		<u> </u>	
0404-232					
-	0 61	1 1 set		ļ. <u></u>	
0404-345	0: 1:::	1 861	,		
0404-347		2			
0404-501	SX Stabilizer control arm	2			
0404-502	Center hub	1			
0404-503	Yoke	1			
0404-504	Blade holder	2			
0404-505	Damper rubber	2			
0404-506	Damper collar	2	-		
0404-507	Root end	2	_	-	
0404-508	Main rotor blade			-	
		2		ļi	
0404-533 2500-036	FFR R/H Assy	-			
2500-036	Brg. ø3×ø8×4F ZZ	2		<u> </u>	
	Brg. ø8×ø16×5 ZZ	2			
2500-061	Brg. ø4×ø9×4 ZZ	2		<u> </u>	
2500-067	Brg. ø4×ø13×5 ZZ	2			
2500-089	Bearing thrust ø7×15	2			
2505-007	M4 nylon nut	10			
2505-016	M5 nylon nut (thin type)	10			
2506-005	FW ø4×6×0.5T	10			
2506-019	FW ø3×4.5×0.5T	10		1	
2506-032	ø8×12×0.5FW	5		 	
2509-010	SX seesaw pin	1		 -	
2521-052	ø4×8×4 collar	2	·		
2521-054	SX blade holder bearing collar	2			
2522-001	Adjust rod M2×16	5		 	
2522-009	Adjust rod M2×70		·		
	Adjust rod M2×90	5		- 1	
2522-011	ø5 boll (hardened)	5	-		
2525-001	O-ring P-7	10			
2529-003		5			
2530-011	SX pivot bolt \$5 × 12.5 (M3 × 7)	2		$oxedsymbol{oxed}$	
2531-002	M3×5SS	10			
2531-003	Set screw M4×4	10			
2532-004	Cap screw M3×12	10			
2532-022	Cap screw M4×15	10	-		
2532-026	Cap screw M4×35	10			
2532-028	Cap screw M2×8	10		-	
2534-007	Tapping screw M3×12 black	 	-	-	
2004-001		10			



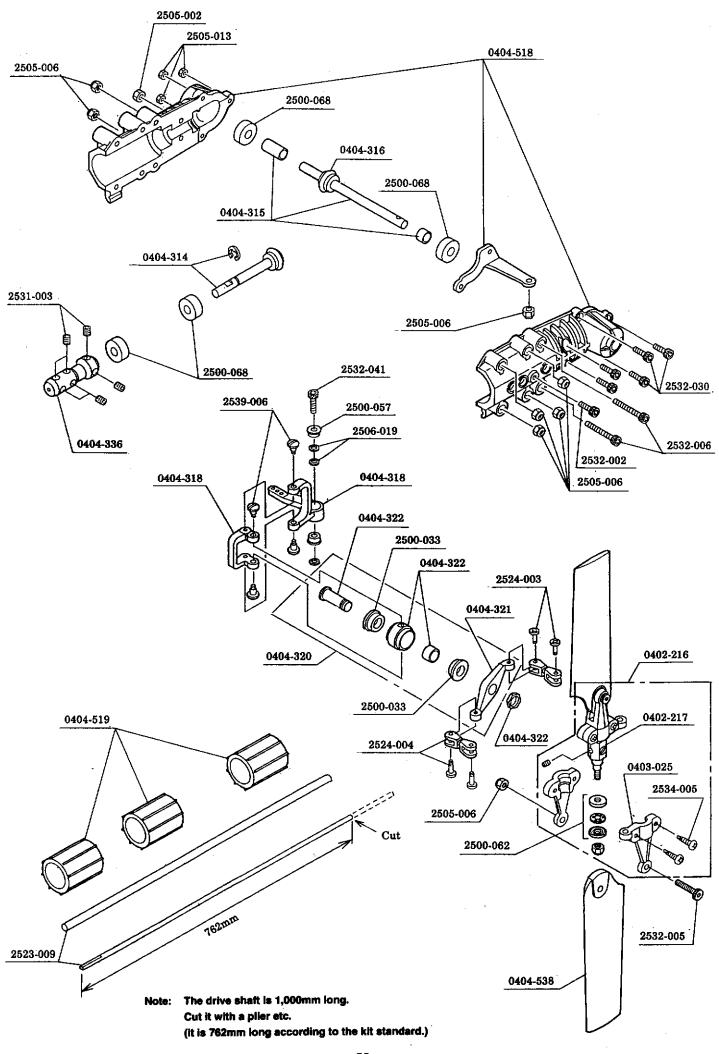
Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0400-004	Metal made clutch bell lining	2			
0402-319	SE bevel gear	1			, , , , , , , , , , , , , , , , , , , ,
0403-010	JJ-10 slide block set	1 set			
0403-011	JJ-11 ø10 mast lock	1			
0403-038	JJ-38 W-type wash-out	1 set			
0403-085	JJ-85 W-type wash control arm	2			
0404-023	Radius arm	2			
0404-034	Clutch bell with gear	1			
0404-209	Main mast L=178	1			
0404-509	Bevel pinion gear set	1			
0404-510	Bevel gear holder	1			· · · · · · · · · · · · · · · · · · ·
0404-511	Bearing holder set	2 W-type 1			
0404-512	Main gear 95T	1		-	
0404-513	Auto-rotation drive shaft	1			
0404-531	Swash plate set	1			
0404-532	ø5 ball radius pin	1			·
0404-537	Joint shaft cover	1			
2500-046	Brg. ø6×12×4 ZZ	2			
2500-047	Brg. ø12×ø21×5 ZZ	2			
2500-048	Bearing ø12×16L one-way	2			
2500-049	Brg. ø10×ø19×5 ZZ	2			
2500-066	Brg. ø6×ø19×6 ZZ	2			
2500-068	Brg. ø5×ø13×4 ZZ	2			
2500-072	Brg. ø3×ø7×3F ZZ	2			
2505-002	M3 nut	20			
2505-006	M3 nylon nut	10			
2508-003	Stop ring S-12	5			
2509-003	Needle pin 2×11.8	2			
2525-001	ø5 boll (hardened)	10			
2530-004	Pivot bolt (D) ø5×5×M3	2			
2530-005	Pivot bolt (E) ø5×7×M3	2			
2531-003	Set screw M4×4	10			
2532-004	Cap screw M3×12	10			
2532-005	Cap screw M3×16	10			
2532-006	Cap screw M3×20 Pan head screw M2×10	10			· · · · · · · · · · · · · · · · · · ·
2533-006	Countersunk screw M3×8 AS-43	20			***************************************
2538-008	The state of the s	10			



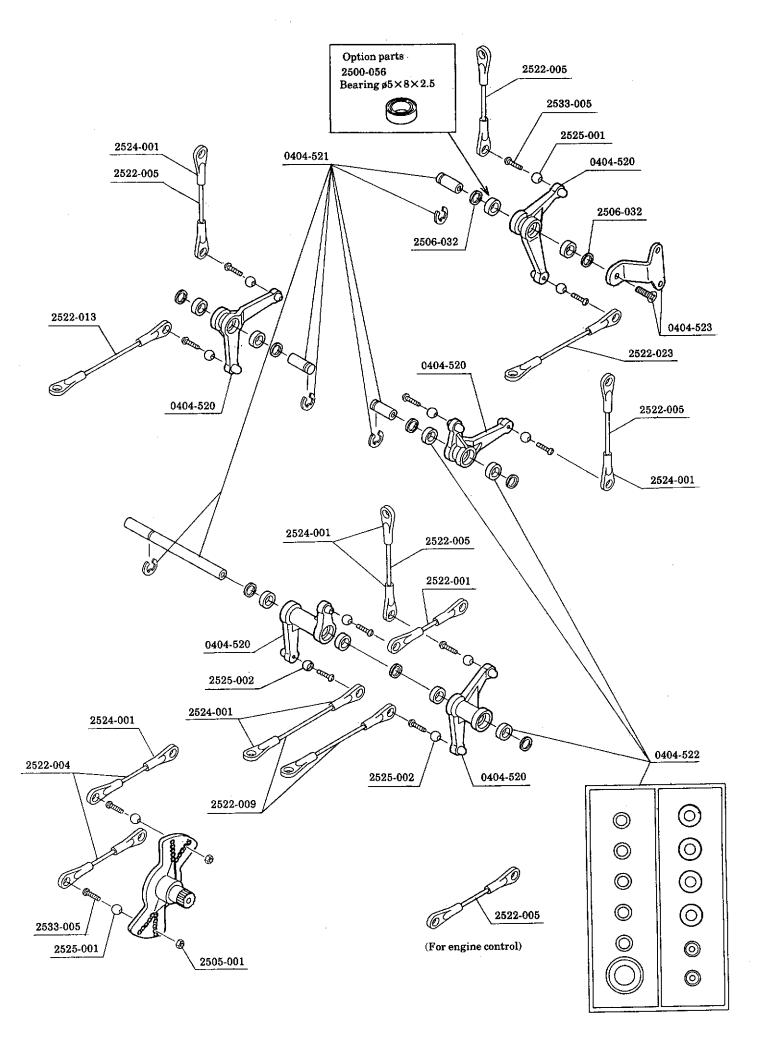
Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0404-010	Starter pulley washer for OS	1			
0404-011	Starter pulley washer for ENYA	1	<u> </u>	 	
0404-012	Starter pulley washer for YS	1			
0404-044	Divisional type cooling cover	1	-		
0404-063	Clutch shoe with shaft	1.			
0404-118	EX cooling fan	1			, , , , , , , , , , , , , , , , , , ,
0404-402	Starter coupling S-60	1			
0404-403	Starter shaft	1		 	
0404-514	Starter pulley set	1			
0404-515	Engine block	R 1 L 1			
2505-001	M2 nut	20			
2506-014	FW ø4×9×1 hardened	5			
2525-001	ø5 ball (hardened)	10			
2532-021	Cap screw M4×10	10			
2532-022	Cap screw M4×15	10			
2533-006	Pan head screw M2×10	20			
2534-003	Tapping screw M3×8 black	10			
2538-008	Countersunk screw M3×8 AS-43	10			
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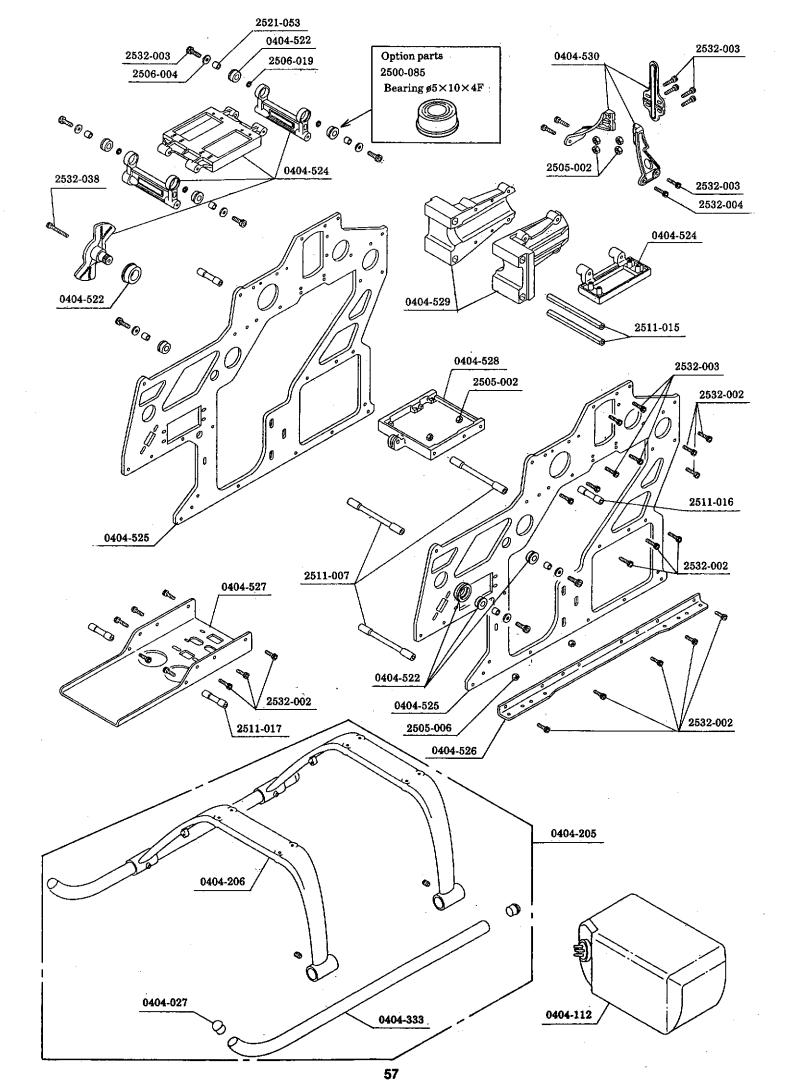
Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0403-069	JJ-69 stabilizer set	1 set			
0403-077	J-77 tail boom brace set	1 set		 	
0404-050	Octagonal tail boom pipe L-735	1		+	
0404-516	Horizontal stabilizer bracket	1		<u> </u>	
0404-517	Rudder control guide set	1		 	
2505-002	M3 nut	20	 	1	
2506-004	FW ø3×8×0.5T	20			
2522-027	Control rod M2×752	2			
2524-001	Ball link	10		-	
2532-012	Cap screw M3×35	10			
2532-038	Cap screw M3×18	10			
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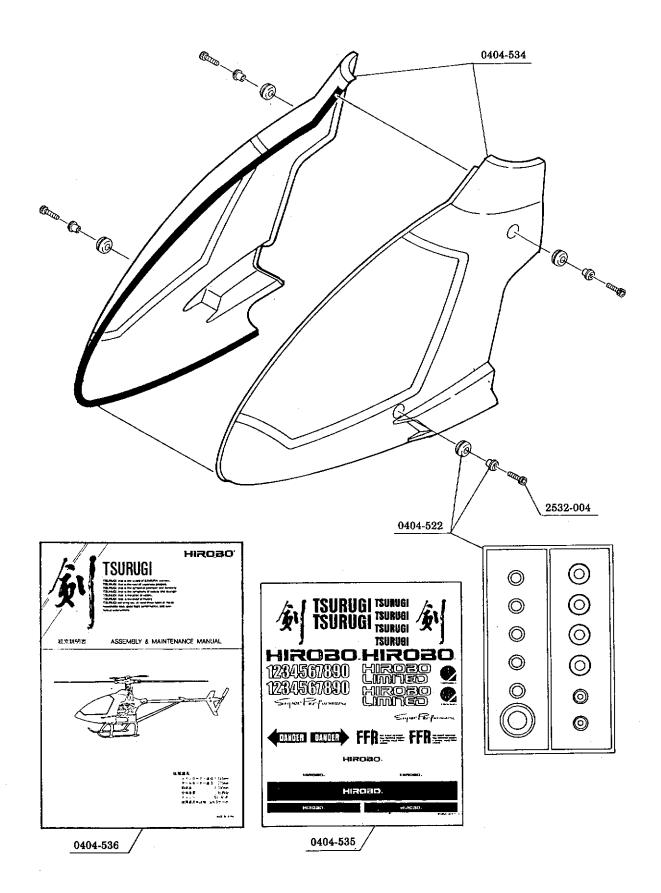
Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0402-216	Tail housing Assy	1		1	
0402-217	Tail housing	1 set			
0403-025	JJ-25 tail blade holder (A)(B)	2 for each			
0404-314	Gear with shaft	1			
0404-315	Tail second shaft	1			
0404-316	ø5 miter gear	1		1	
0404-318	Tail pitch lever (A.B)	1 for each			
0404-320	Tail pitch plate set	1			
0404-321	Tail pitch plate	1			
0404-322	Tail pitch plate boss	1 set			
0404-336	Tail joint ø2	1			
0404-518	Tail gear case	1			
0404-519	Tail drive guide set	1			
0404-538	Tail rotor blade	2			
2500-033	Brg. ø6×ø12×4F ZZ	2			
2500-057	Brg. ø3×ø6×2.5F ZZ	2			
2500-062	Bearing ø4×ø9×4H thrust	2			
2500-068	Brg. ø5×ø13×4 ZZ	2			
2505-002	M3 nut	20			
2505-006	M3 nylon nut	10			
2505-013	M2.6 nut	20			
2506-019	FW ø3×4.5×0.5T	10			
2523-009	Tail drive shaft set	1			With SUS pipe
2524-003	Rod end pin M2×4.5	10			
2524-004	Double link pin type	2			
2531-003	Set screw M4×4	10	,		
2532-002	Cap screw M3×8	10			
2532-005	Cap screw M3×16	10		i	
2532-006	Cap screw M3×20	10	-		
2532-030	Cap screw M2.6×8	10			
2532-041	Cap screw M3×14	10			
2534-005	Tapping screw M2×10 No.2 type	10			
2539-006	M2×6 shouldered truss	2			
	-				



Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0404-520	Lever set	1 .			
0404-521	Lever shaft set	A 2 B 1		<u> </u>	
0404-522	Bushing set	2			
0404-523	Elevator lever stay	1			
2500-056	Bearing ø5×8×2.5	2			
2505-001	M2 nut	20			
2522-001	Control rod M2×16	5			
2522-004	Control rod M2×35	5			
2522-005	Control rod M2×45	5			
2522-009	Control rod M2×70	5			
2522-013	Control rod M2×100	5			
2522-023	Control rod M2×130	5			
2524-001	M2 Rod end	5			
2525-001	ø5 boll (hardened)	10			
2525-002	EX ø5 boll	5			
2533-005	Pan head screw M2×8	20			
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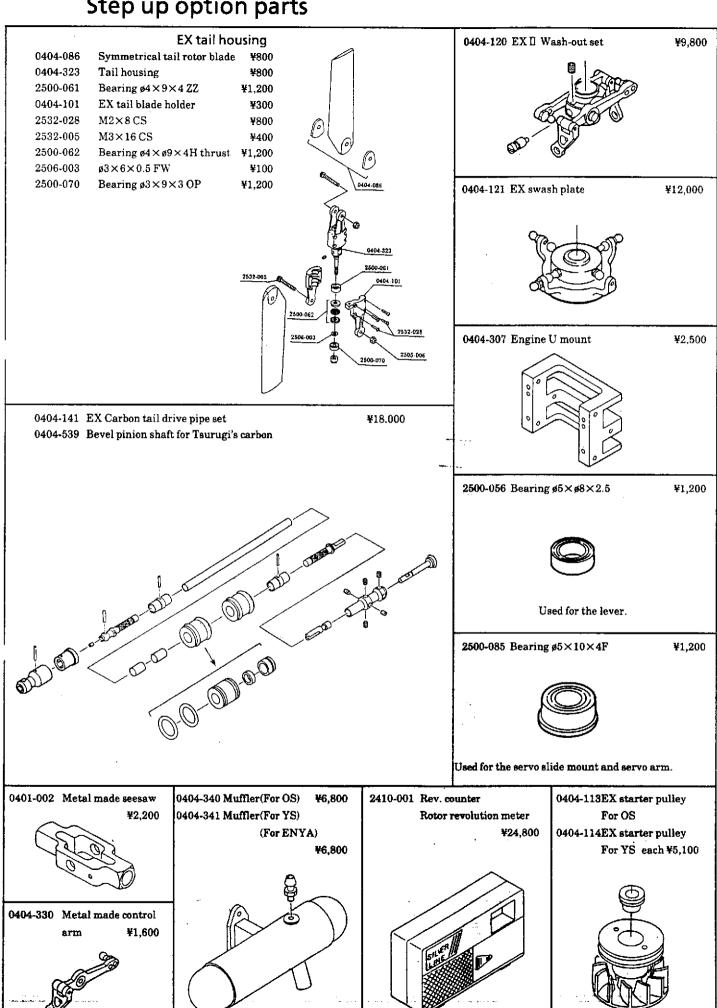
Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0404-027	Skid pipe cap	4			
0404-112	Large fuel tank	1 set			
0404-205	Landing gear Assy	1 set			
0404-206	Skid foot	2			
0404-333	Skid pipe black	2			
0404-522	Bushing set	2			
0404-524	Servo mount set	1 for each			
0404-525	Main frame	2			
0404-526	(L) angle	2			
0404-527	Mechanical plate	1			
0404-528	SX gyro mount	1			
0404-529	Tail boom holder	1			
0404-530	Radius stay	1			
2500-085	Bearing ø5×10×4F	2			
2505-002	M3 nut	20			
2505-006	M3 nylon nut	10			
2506-004	FW #3×8×0.5T	20			
2506-019	FW \$3×4.5×0.5T	10			
2511-007	Cross member M3×64	2			
2511-015	Hexagon cross member L=64	2			
2511-016	Cross member M3×22	2			
2511-017	Cross member M3×33	2			
2521-053	ø3×5×4.1 collar	2			
2532-002	Cap screw M3×8	10			
2532-003	Cap screw M3×10	10			
2532-004	Cap screw M3×12	10			-
2532-038	Cap screw M3×18	10			
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			-		



Code No.	Particulars	Q'ty	Price	Freight charge	Remarks
0404-522	Bushing set	2			
0404-534	SX cabin	R 1 L 1			
0404-535	Decal	1			1000000
0404-536	Instruction manual	1	•		
2532-004	Cap screw M3×12	10			

往文書	年 月 日 (才) 男/女 お電話() -	本	コードNo 品 名 数量 単									ずご記入して下さい。 合計 偽 辛	送	I++6 ××1	6格 ¥1000 4料 ¥ 250 の場合 <1.03+250=¥1280となります。	技術で路く真心のクオリティー
	お年し込み年お名前が在がたま		モンは、光明 受性No	1	2	3	4	2	9	7	8	※太線の中は必ずご記入して	ご注文のときのお願い。	表示価格には消費税は パーツ価格×1.03+送3 てご送金下さい。	(例) パーツ価格 ¥1000 送料 ¥ 250 ご送金額=1000×1.03+250=	は悪に

Step up option parts



TSURUGI AUTO-ROTATION TORQUE LIMITER SET

