

ASSEMBLE * INSTRUCTION MANUAL



Thank you for purchasing this Sanwa-Kalt product

Please read this instruction set thoroughly before assembly and flight

Consider safety first (yours and others) when you fly

To improve this product, we may change some of the specifications and/or parts without notification Please keep this instruction set for later use

Mercury M is a 46 size helicopter utilizes C. C P. Mix

Requires C.C.P. Mix capable (120 ° Swash plate type) transmitter



Read me first

- Warning mark: Must follow this instruction to prevent accidents and /or injury.
- Caution mark: Must follow this instruction to prevent damages.
- Important mark: Important point for assembling.
- One-Point mark: Helpful advice for assembling.

Attention on assemble and flight

Caution: Assembling

- Read this entire instruction <u>BEFORE</u> you start assembling.
- Do not modify parts other than noted in this instruction.
- Before install nuts and screws where instructed to apply locking agent, clean threads with alcohol pads. Then apply locking agents (i.e. Kalt-Tight) and secure nuts and screws.
- Do not use engine displacement size other than recommended in this instruction.
- Upon the completion of assembly, double check for errors by referring to this instruction.

Caution: After assembly

- Check all nuts and screws.
- Check all moving parts move smoothly.
- Charge batteries for radio equipment.
- Turn transmitter power switch on after set throttle stick to idle position. Then turn receiver power on. Reverse order when powering down.
- Move throttle/collective, aileron, elevator, and rudder control sticks and verify all the movements are in order.

Warning: Before you fly

- Check for missing or loose screws. If you find missing screws, replace with specified screws. Tighten loose screws.
- The control systems for rotor head, swash plate, tail rotor area, pitch control, and linkages should move smoothly without slops or bindings. If you find any abnormalities, correct the problem and make adjustments.
- Check for any deformed, cracked, or damaged parts on the helicopter. If you find any, replace with new part.
- Check all servo movements. If you find any abnormality, readjust settings. Also, make sure nobody is using the same frequency before turn your transmitter. Never turn your transmitter on if someone is using your frequency.
- Seek help from an experienced helicopter pilot to adjust your helicopter.

Warning: When you fly

- Consider safety and others. Obey the following rules.
- Fly at RC flying field or away from houses and people.
- Never fly in a prohibited area.
- Do not fly under strong wind. It may be impossible to control your machine and may cause an accident.
- Do not fly under poor visibility. (Snow, rain and fog.)
- Do not fly after dark. You will lose the attitude of helicopter and lead you to a dangerous situation.
- Seek advice from an experienced helicopter pilot.
- Observe safety rules. Do not fly by yourself.
- Never fly over people, houses and buildings.

antenna collapsed. If you do not have total control, do not fly until you solve the problems.

• Make sure engine control stick is set to idle (and throttle servo) when you start engine or adjust engine. If you start engine while throttle is set to high, engine will try to turn rotor on high speed and could cause sever injury or damage to helicopter. Hold rotor head when you start or adjust engine.

• Make sure you keep enough distance (at least 5m) from helicopter to other people or objects.

• Stay away from extension of main rotor and tail rotor plane. Keep at least 5m of distance when you are hovering and adjusting tracking.

• When you notice an abnormality, unusual noise or vibration, land the helicopter immediately. Do not fly it until you solve the problem.

• If you crash or have a hard landing, do not fly until you inspect helicopter thoroughly and repair if necessary.

• Check fuel level frequently. You can check it in hover. Do not fly when fuel level becomes below 1cm.

Caution: Usage of this helicopter

Do not use this helicopter for other than completions, sports flying and hobby.

Caution: Daily maintenance

- Clean helicopter with glass cleaner or alcohol to clean fuel, oil and dart. Clean the area before you apply grease if needed.
- Check helicopter thoroughly between flight. Replace deformed, cracked or damaged parts with new parts. Also check all nuts and bolts are in place and tight.

Warning!

• This product is mostly assembled and adjusted by you. Therefore, final appearance and flight performance depends on the way you assemble and adjust.

[Page 3]

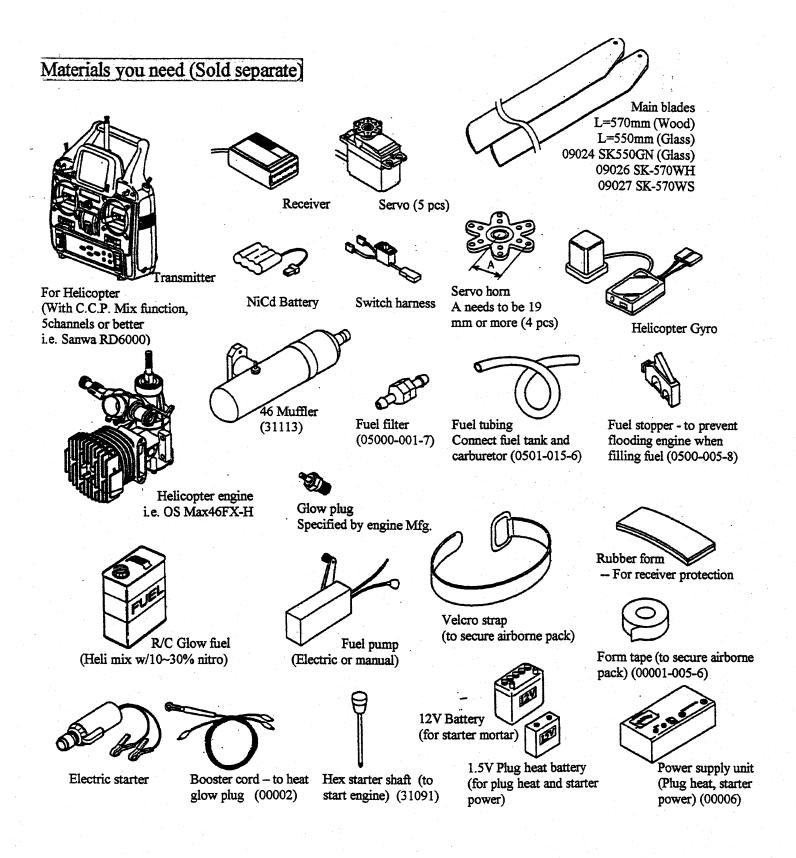
Index

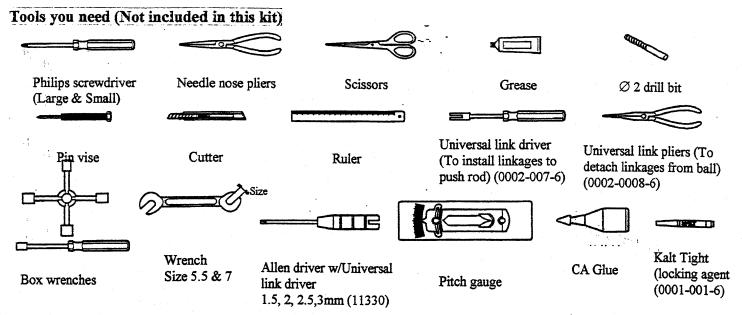
Read me first	Ĺ
Before you start	ļ
Materials you need (not included in this kit)	
Tools you need (not included in this kit)	
How to handle nuts and bolts	
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correctly.

Screws and nuts are packaged in plastic bags in each step. Open the bag and empty all the hardware for the step into small box to prevent losses. Also this kit contains exact quantity necessary to complete assembly. Please pay attention for the size and length of screws.

There are several items you will need to purchase before you fly. Purchase them from your favorite hobby store.

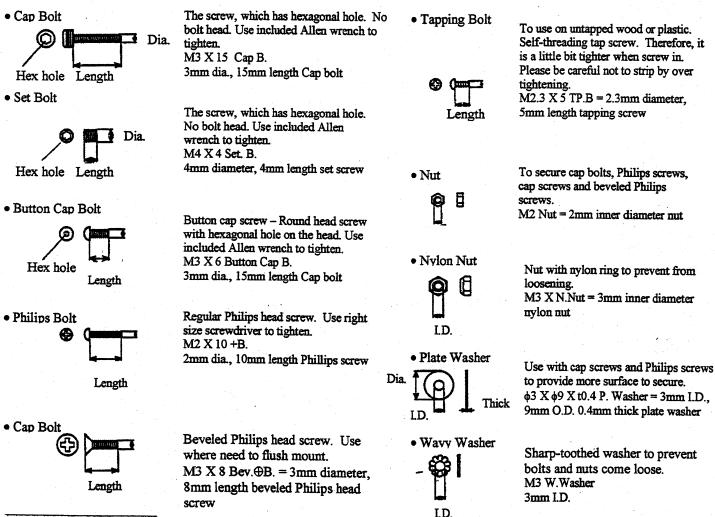




Caution! How to handle nuts and bolts

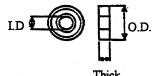
It is highly possible that one loose screw will cause helicopter to crash. Therefore, please make sure to use right shape and length of nuts and bolts and secure them tight. Apply Kalt tight where noted.

Left side illustrations on each page have actual size of hardware. Check the size and shape of hardware before you install.



About Ball Bearings

Ball bearings are silver cylinder shape, which have multiple balls inside. There are 2 types of ball bearings. One is sealed and other is open type.



Regular bearings –B. Bearing Φ 5 – Φ 13 – 4 695ZZ 5mm I.D., 13mm O.D., 4mm thick (695ZZ type)



Bearing with flange – B. Bearing F Φ 5 – Φ 13 – 4 695ZZ = 5mm I.D., 13mm O.D. includes flange, 4mm thick (695ZZ type) One-Point mark: Helpful advice for assembling.

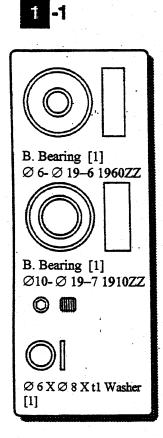
Caution: Apply Kalt tight where noted with Kalt-tight mark.

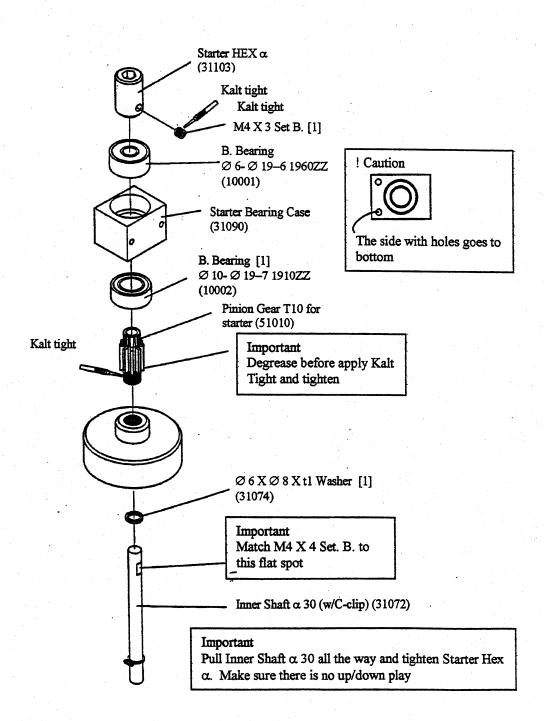
Caution: Apply Kalt grease where noted with Kalt-Grease mark.

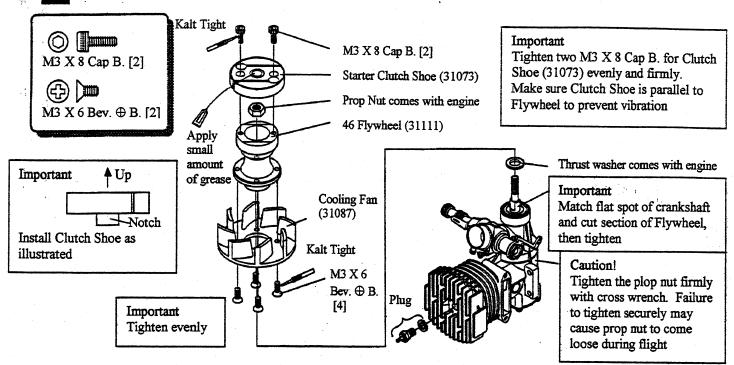
One point:

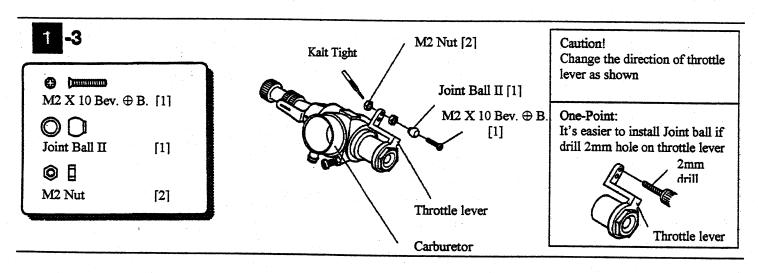
If you have a torque wrench, refer to the following chart when you tighten cap bolts. These values are based on cap bolt specifications; however, it may not be applicable against certain materials like plastics. Also, threads will wear out and lose strength when you reuse many times.

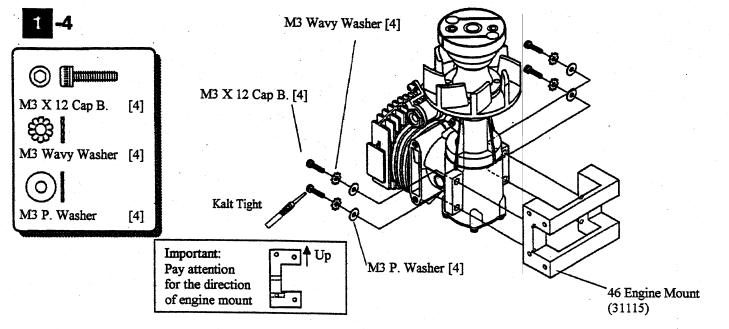


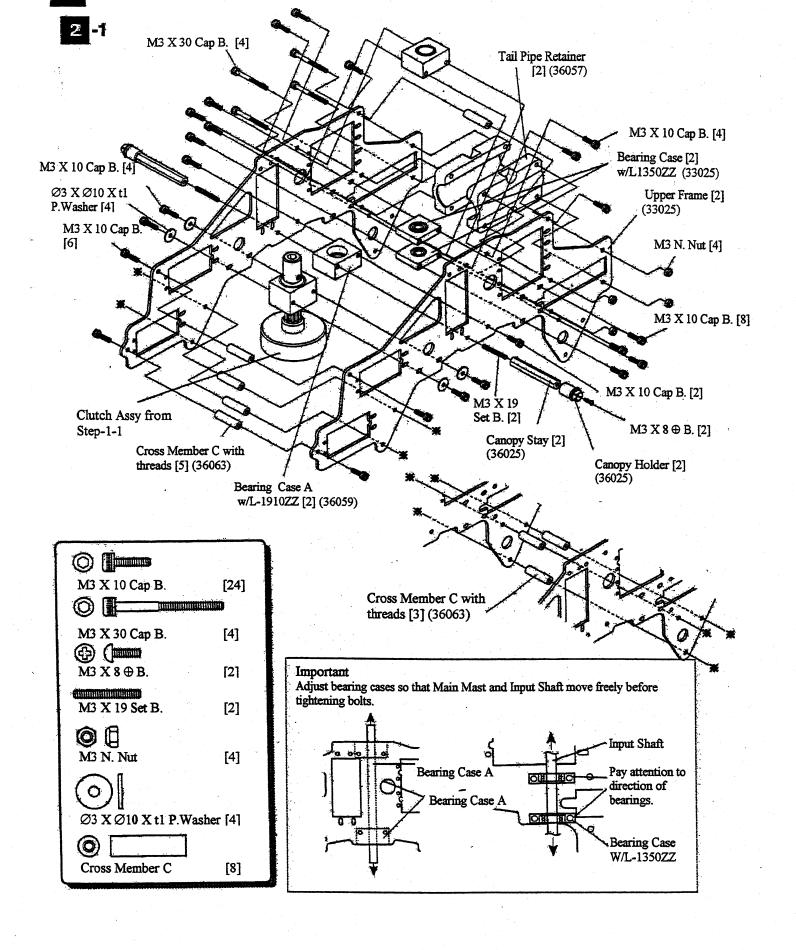






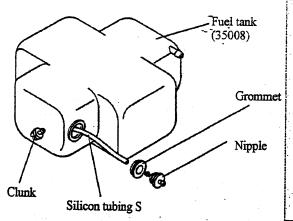






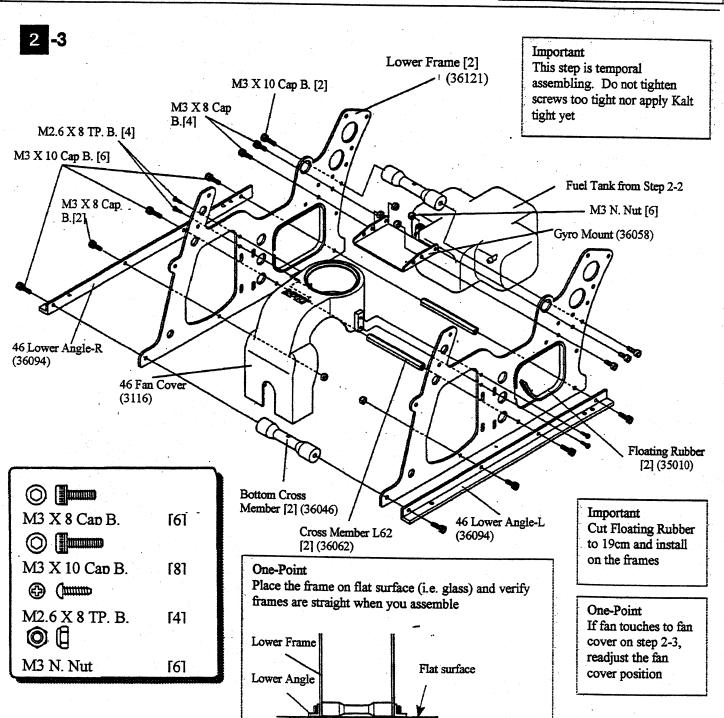


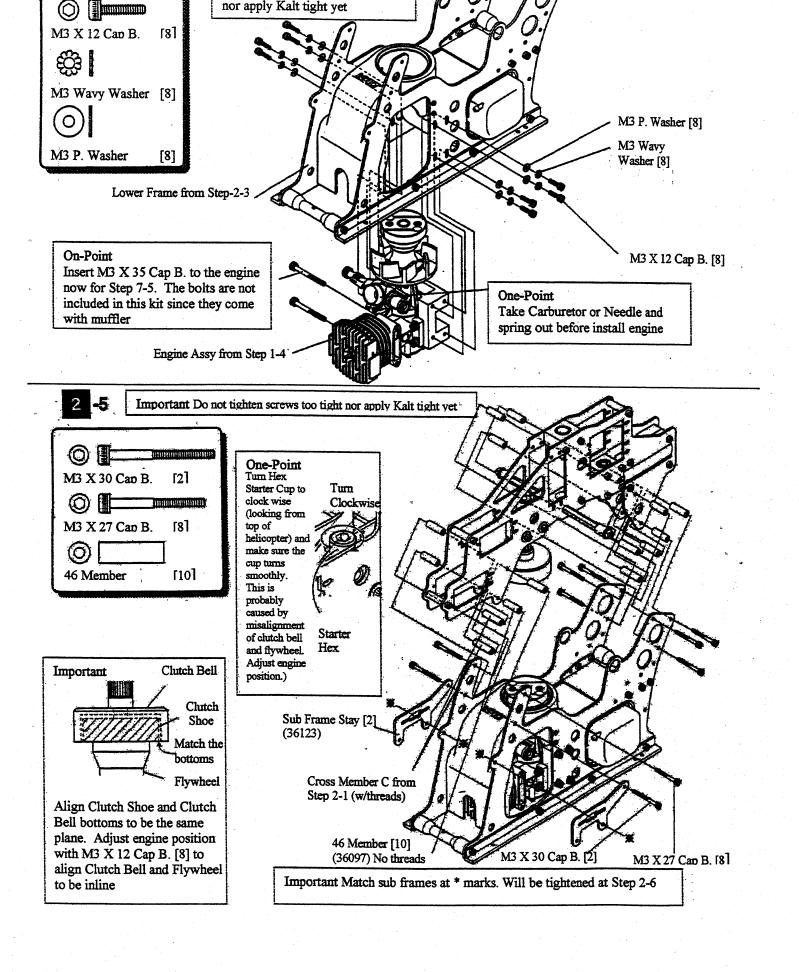
One-Point
Install grommet on the tank first then twist nipple into grommet.
Do not push too hard, the grommet will fall inside the tank.

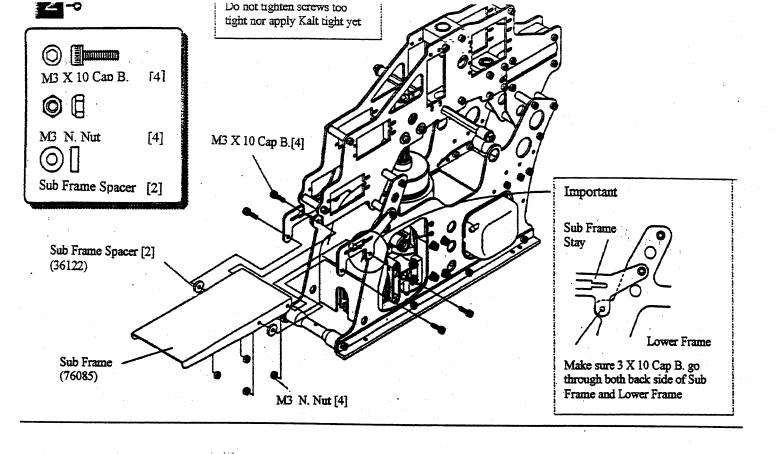


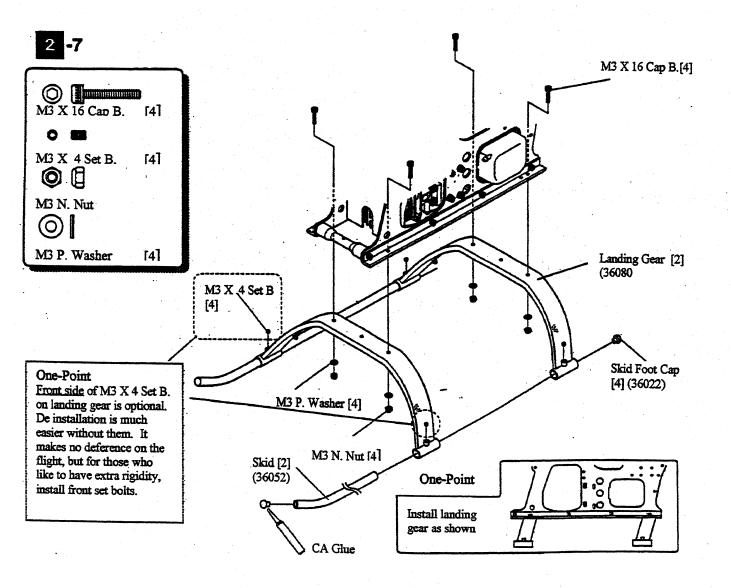
Caution!

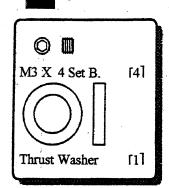
Inspect inside of fuel tank if it is clean. Install clunk all the way into silicon tubing. If silicon tubing falls off during flight, engine will stop and may cause crash. Also, move the tank on all directions and make sure the clunk does not get stuck. Adjust the length of the tubing if necessary.





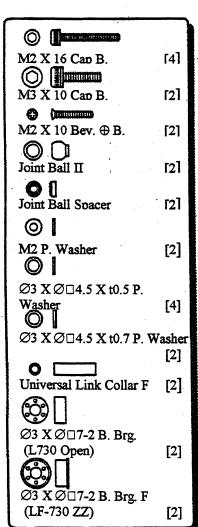


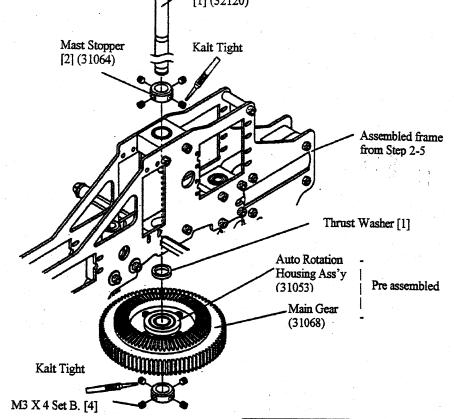


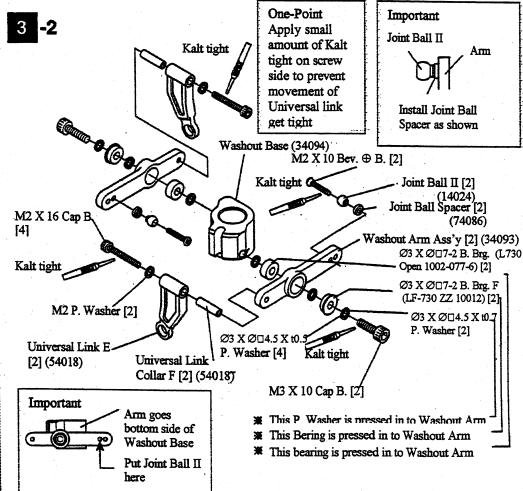


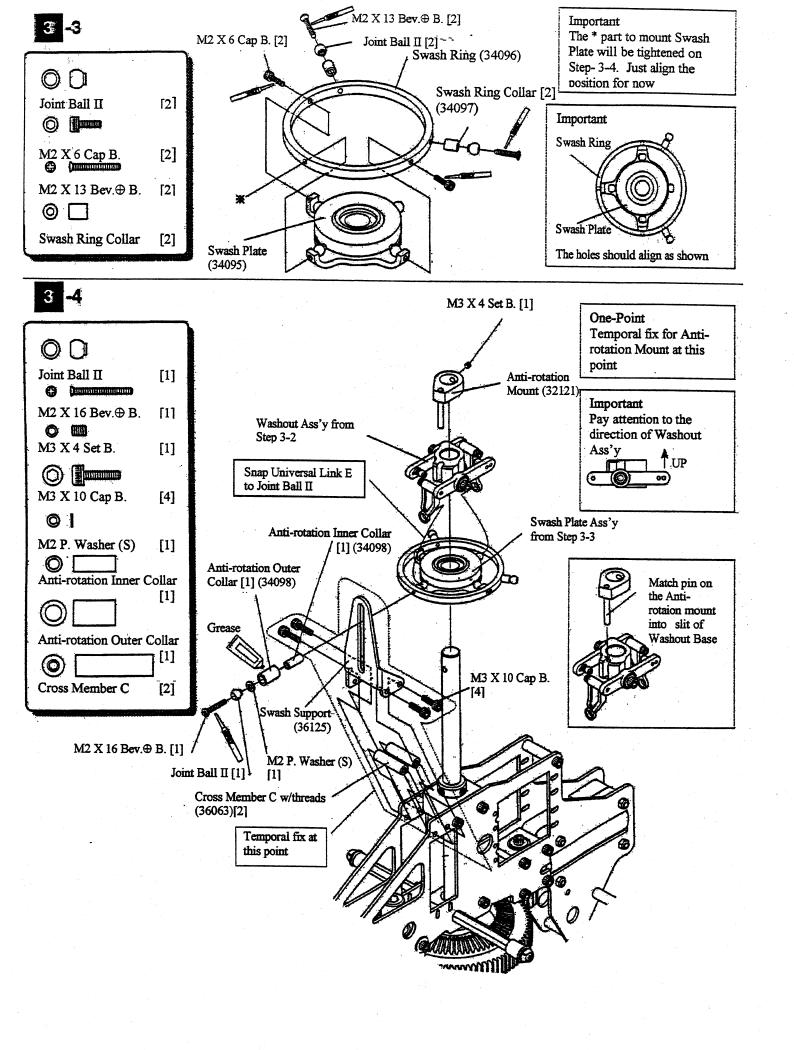
Important

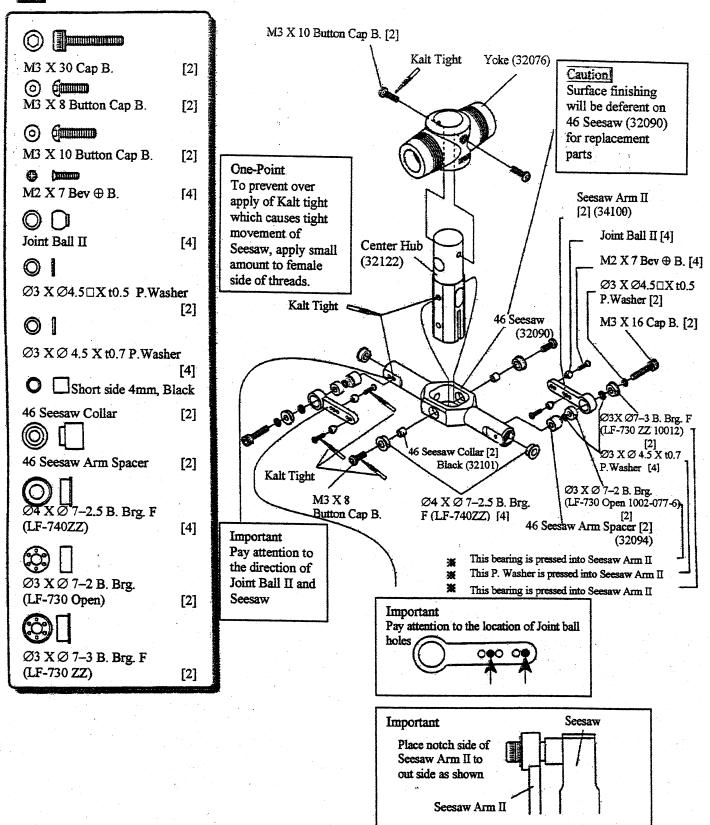
Insert Main Mast from top bearing case, then Auto rotation hub. Secure Mast stopper at the bottom of mast (at cut area.) Pull mast up position and secure mast stopper at top of upper bearing case. Make sure mast have no up/down play

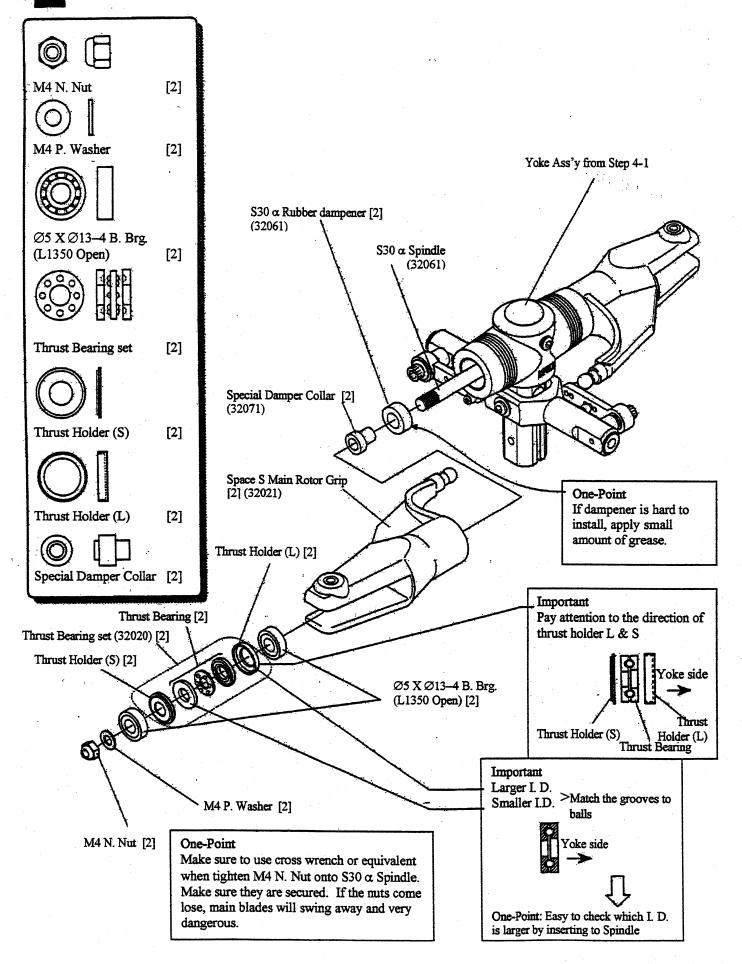


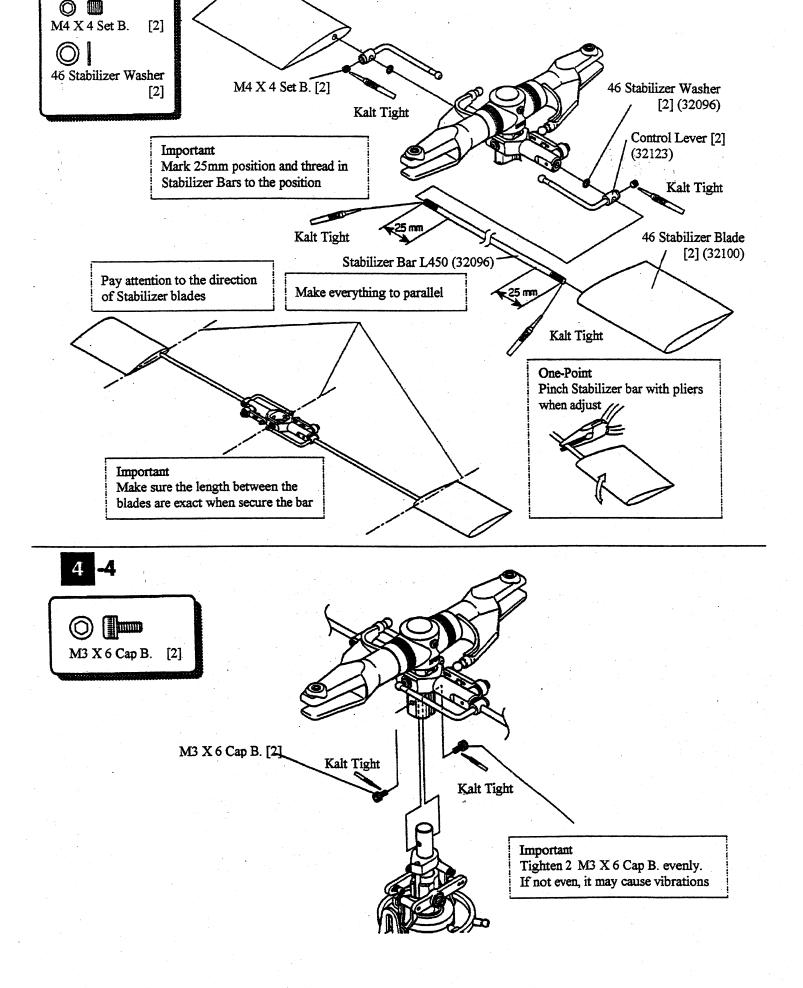


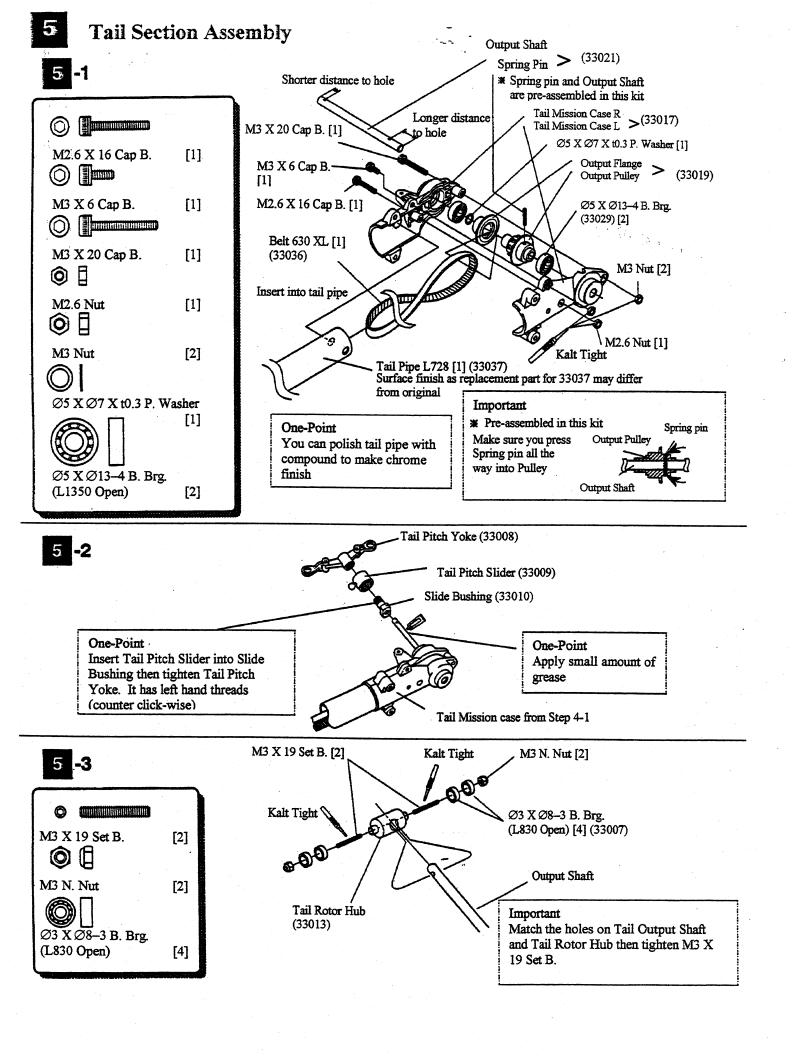


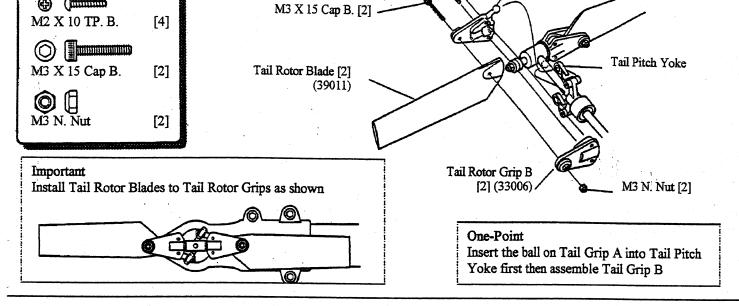


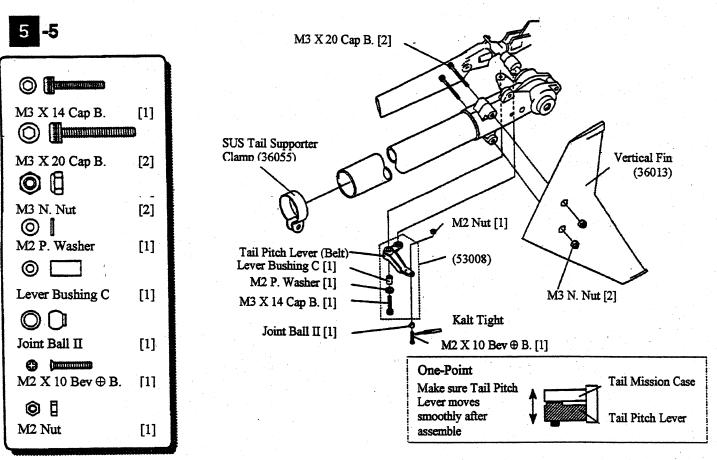


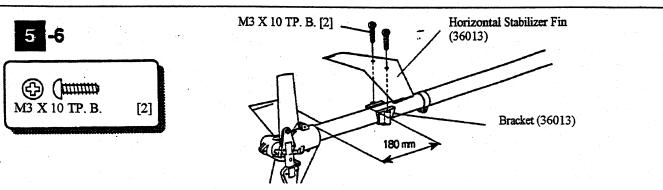




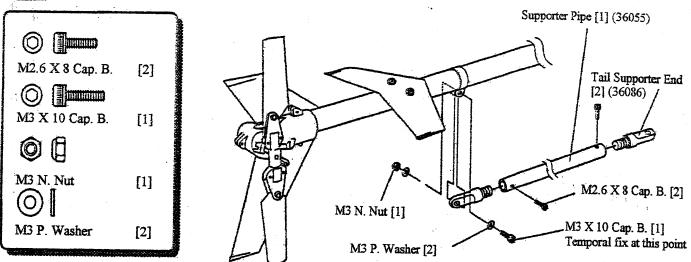




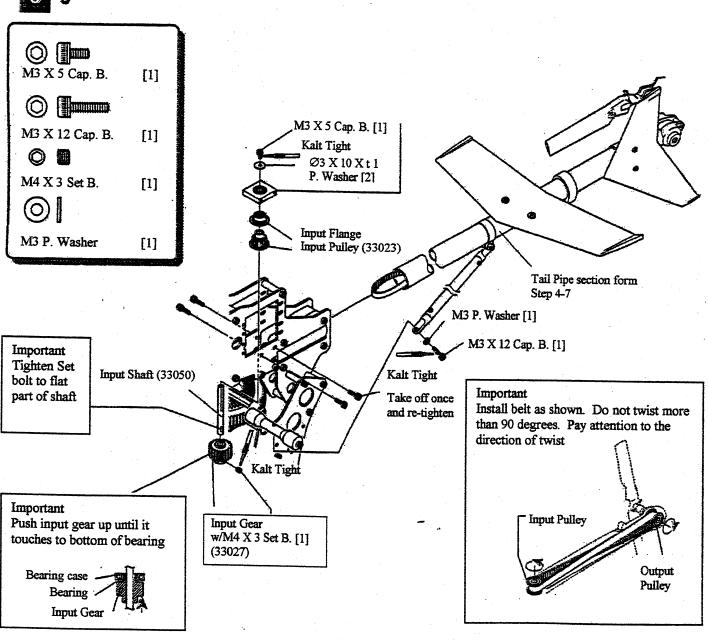






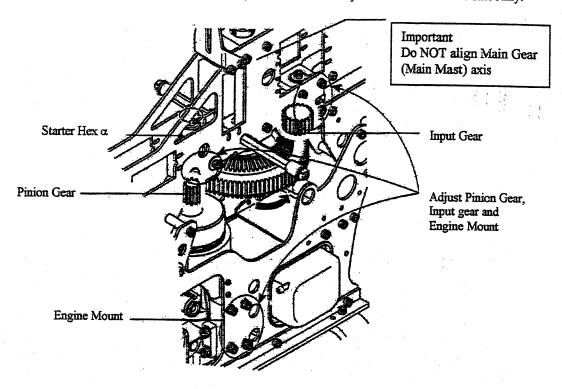




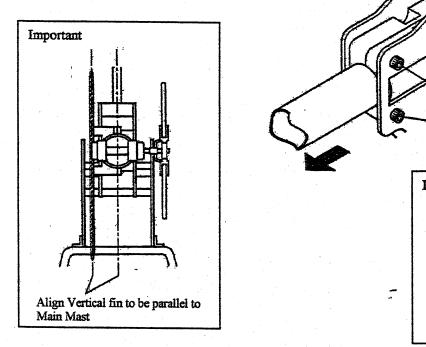


Now adjust engine side of Pinion Gear, Main Gear and input gear backlashes. Rotate Main Gear and align gears so they move smoothly.

Next align engine and Pinion gear by adjusting engine location. Verify Starter HEX α turns smoothly.



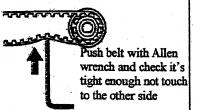




Tighten the temporal fix of Cap B. from Step 2-1 after adjust belt tension

Important

Move Tail pipe in/out to adjust belt



Important Maintenance

- Belt will stretch. Because of nature of the belt, it will stretch more on first a few flights. Check and adjust tension every flight for that period.
- Do not lube or grease on belt and pulley. It will shorten belt life.



Tighten the temporal fix Cap bolts from following stages. Take Cap bolt and apply Kalt tight then tighten securely one at a time.

Step 2-1 (Upper Frame Assembly)

Step 2-3 (Lower Frame Assembly)

Step 2-4 (Engine Mount Assembly to Frame)

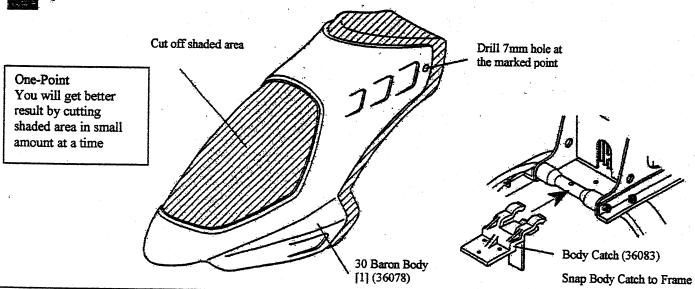
Step 2-5 (Assemble of Upper Frame and Lower Frame)

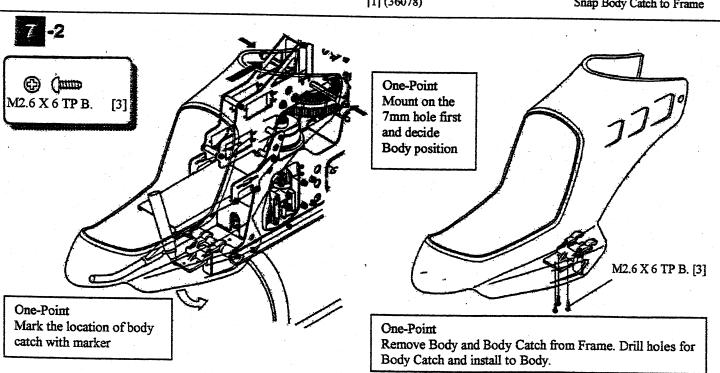
Step 2-6 (Servo Frame Assembly)

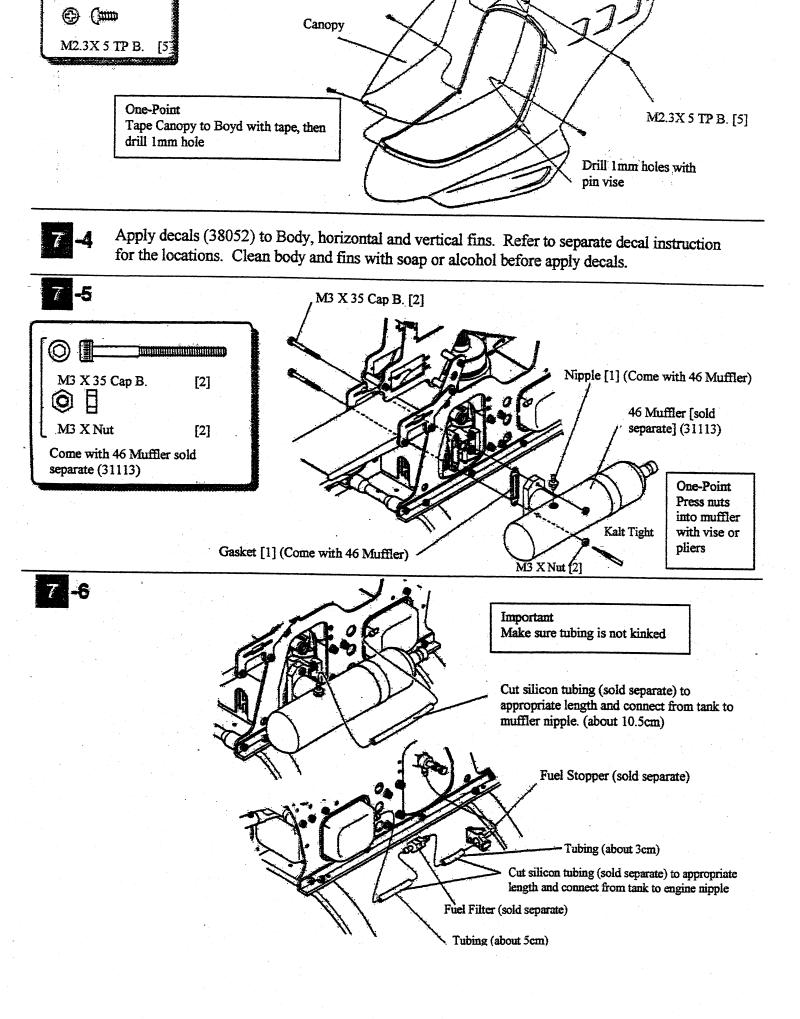
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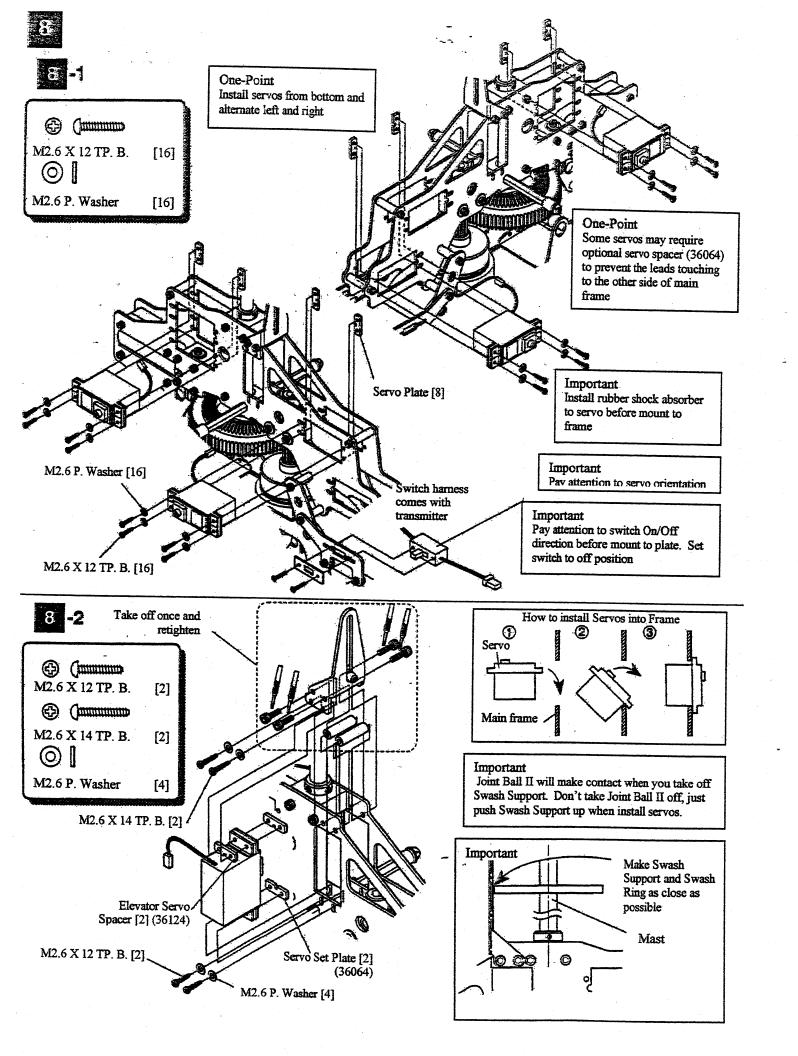
Body and Muffler Assembly

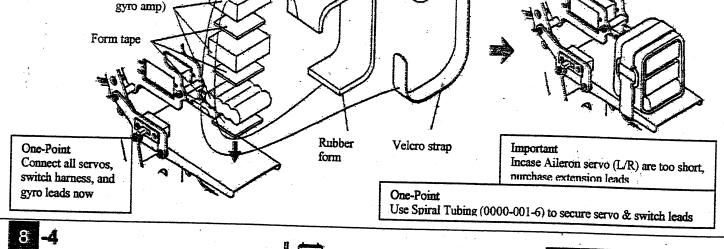


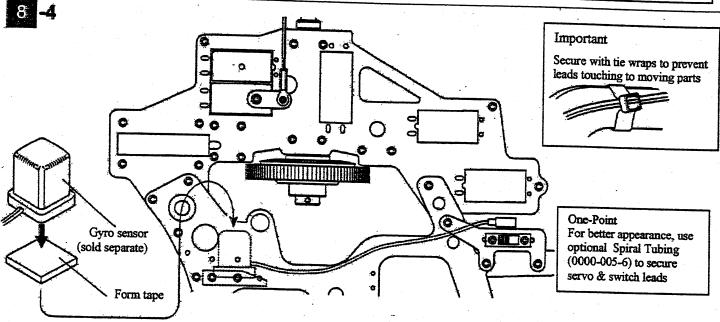










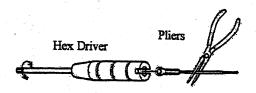


How to handle universal Links

R/C Helicopter uses a lot of universal links. Cares should be taken when you handle universal links. Failure to follow this instruction could cause reduction of performance. In the worst case, you will lose control and leads to crash.

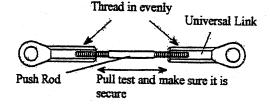
How to thread into push rods

When you thread in or out to/from push rod, hold push rod with pliers and turn link with Universal Link Driver.



Depth of rod into universal link

Try to be the same thread depth on both links if both ends use universal links. Also perform pull test after assemble to make sure they are secure.



Tightness of Universal Links

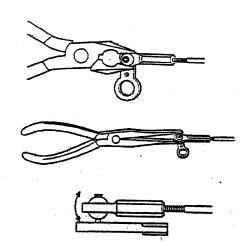
Check the movement of universal links. If they are too tight, pinch the links with pliers slightly while attached on joint ball. (Shown on right)

How to remove links

Use universal link pliers (sold separate) when remove universal links form joint balls. You may damage links if you force.

Life of Universal Links

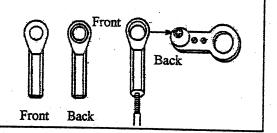
These links have a life span. Treat them as wearable item. Replace them when they have too much slop or if you can remove with fingers. Continue to use wore out links may cause to pop out during flight.



One-Point

Direction of links

These universal links are unidirectional. Insert from back side of link to the joint ball. It will be harder to insert and causes tight movement if you insert wrong way.



8 -5

Check the connections for all the servos, Gyro unit, and battery.

Charge transmitter battery (or use alkaline batteries.)

Charge receiver battery. Then turn system on and verify the operation. Make sure turn transmitter power on before receiver power.

You will need transmitter with C.C.P.Mixing (120° Swash Type) function.

i.e.

Stylus (w/C.C.P Mix Heli Card SC-200) RD6000		
PCM1024ZH		
FF8H Super		
PCM 10		
X-3810		

(As of July 1999)

Set Swash plate type to CCPM 120° type.

i.e.

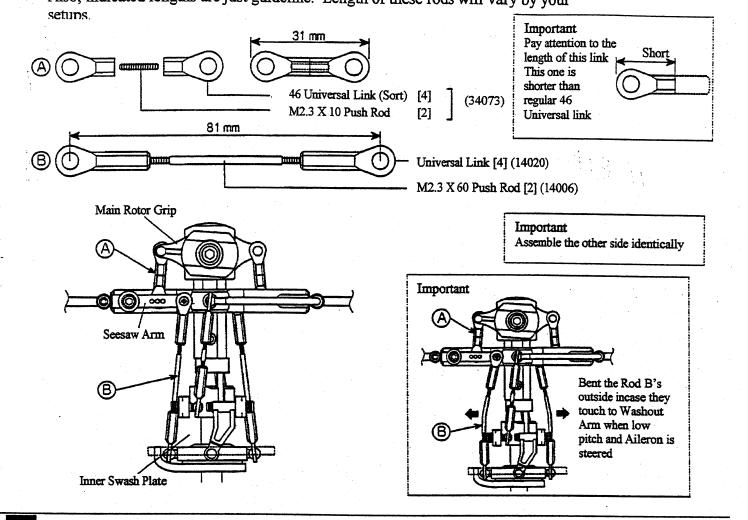
Sanwa Stylus	SWASH type setting to "CP3f"		
Sanwa RD6000	HELI SWH setting to "CP3(F)"		
Futaba PMC 1024ZH	SWH Type to "SR3"		
Futaba FF8H Super	Type to "HELI SR-3"		
JR X3810	SWASH TYPE to "3 SERVO 120°"		
JR PCM 10	SWASH MIX to "3 SERVO 120°"		
JR MAX66 II	SWASH MIX to "3 SERVO 120°"		

You may have to use reverse function depend on your radio.

Follow the instruction of your radio equipment for operation of transmitter.

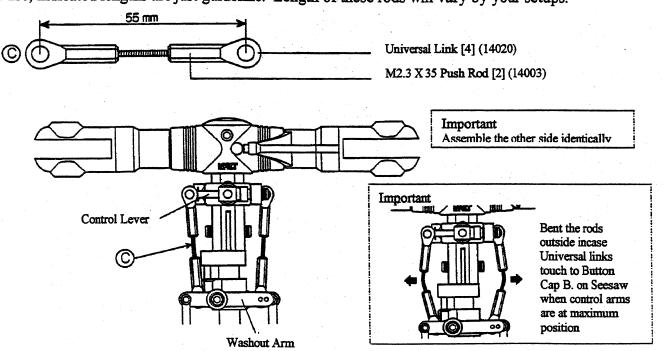
Turn receiver power on.

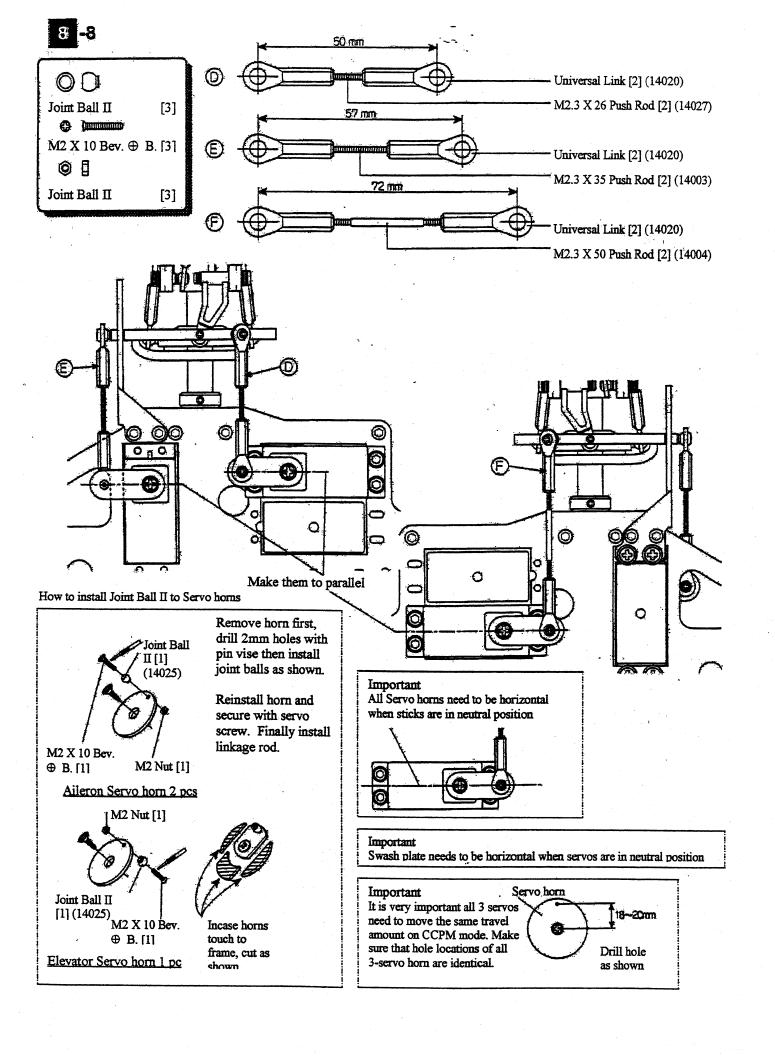
Set all the sticks, trims, hovering throttle, and hovering pitch to center or neutral position then set all servos to neutral position. Make sure servos are all neutral when installing linkages.

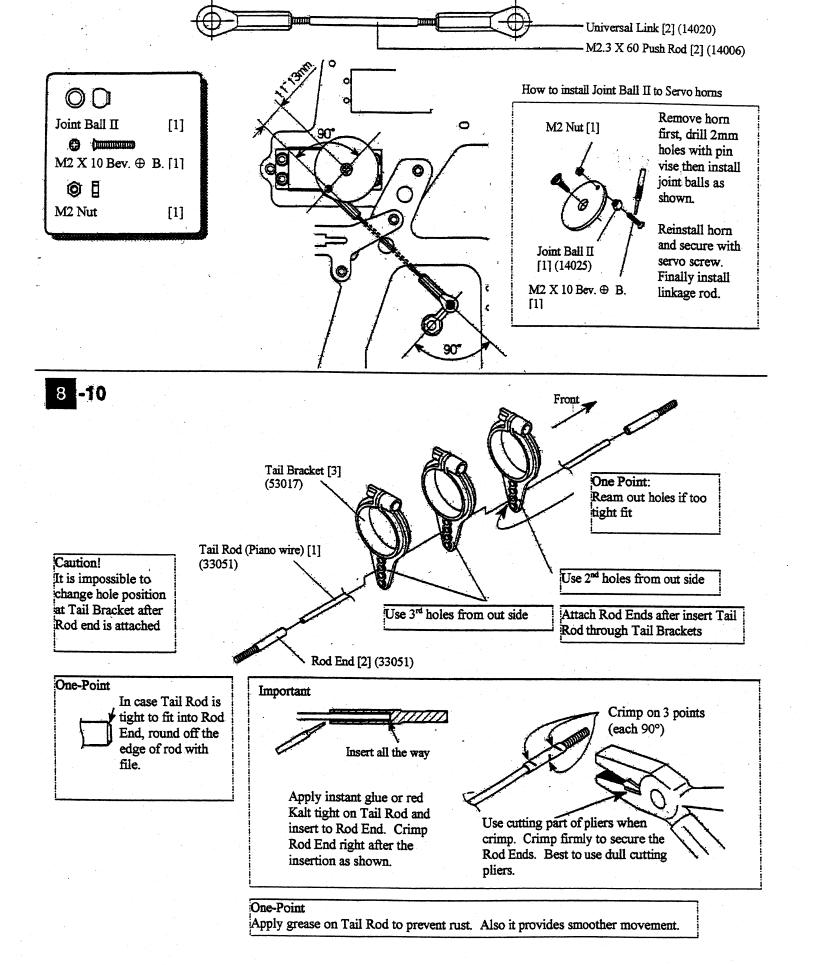


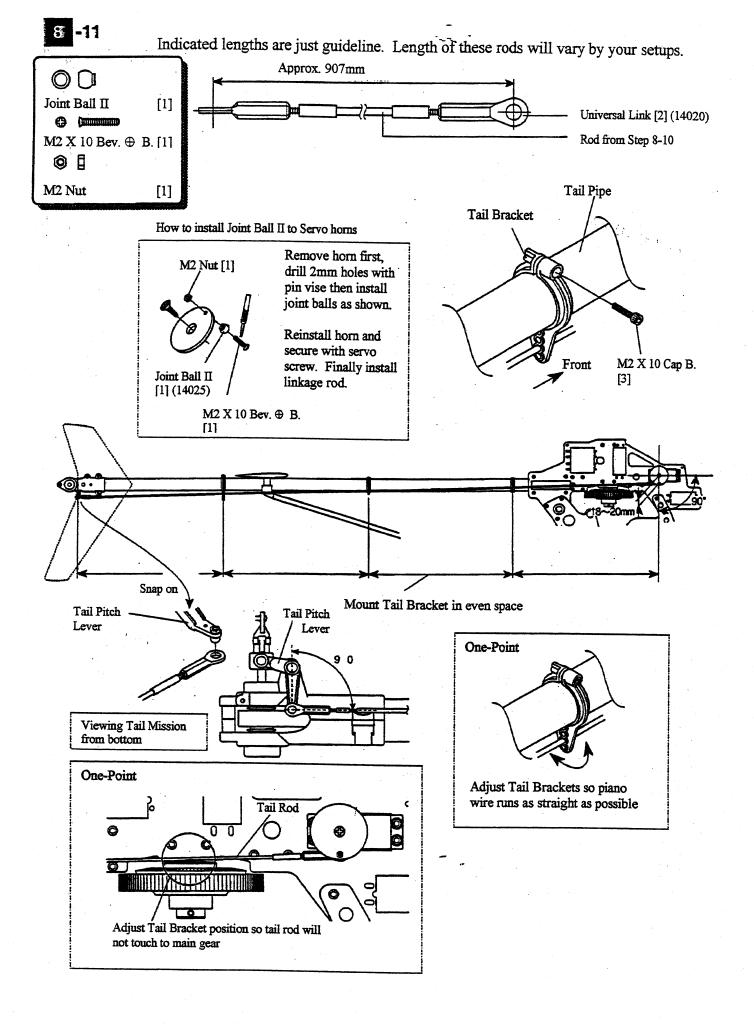
8 -7

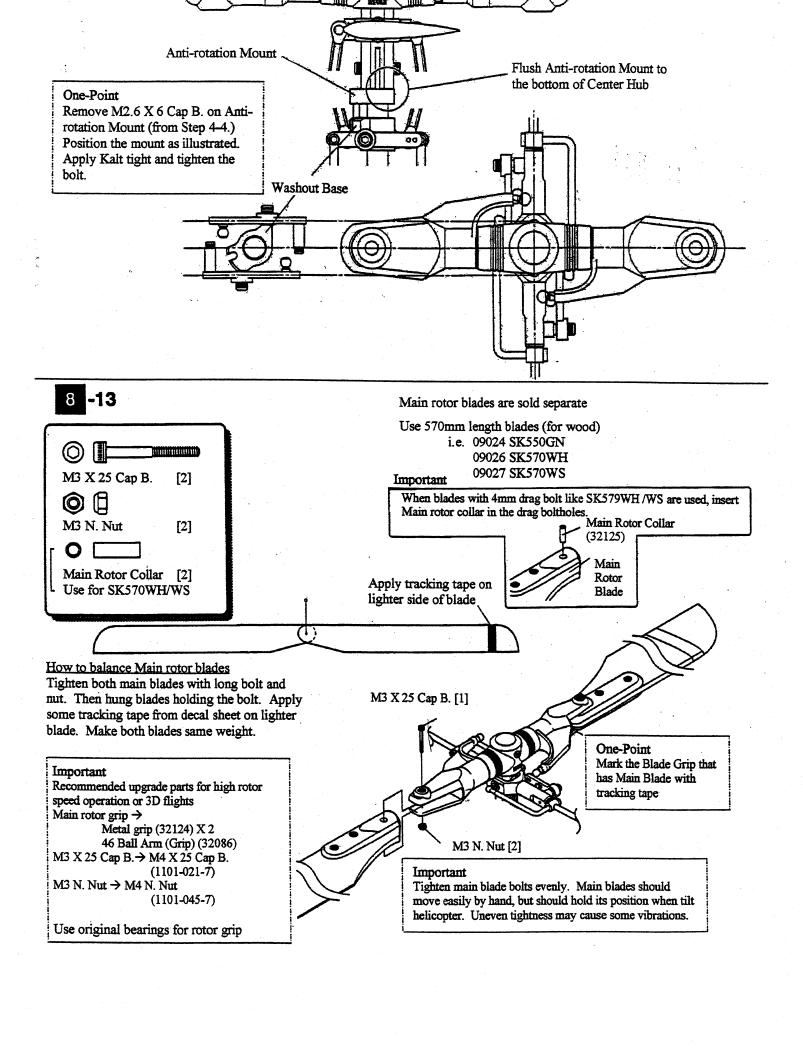
Assemble 2 pcs of Rod C. Make both are identical length.
Also, indicated lengths are just guideline. Length of these rods will vary by your setups.







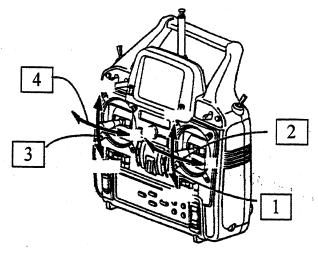


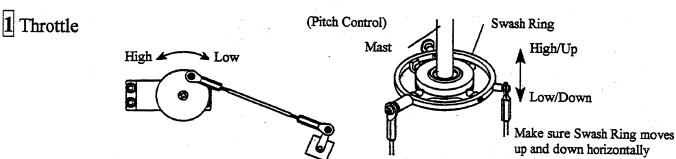


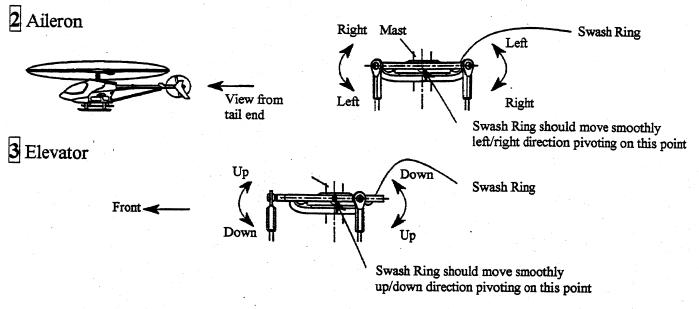
Verify transmitter and receiver powers are turned on

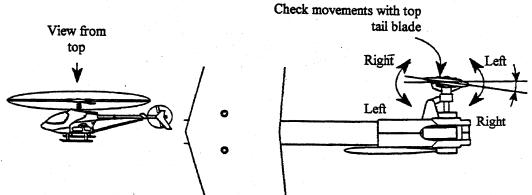
Move sticks on the transmitter and verify the linkages on helicopter move accordingly and smoothly.

Stick	Mode 1	Mode 2	
1	1 Throttle/Pitch Elevator		
2	Aileron	Aileron	
3	Elevator	Throttle/Pitch	
4	Rudder	Rudder	









Tail blade should have pitch as illustrated when all the sticks and trims are in neutral. Actual pitch may vary. Make final adjustment with flight tests.

Swash Ring linkages.

If #4 servo moves incorrect direction, reverse servo direction from transmitter.

Refer to transmitter instruction for the setup.

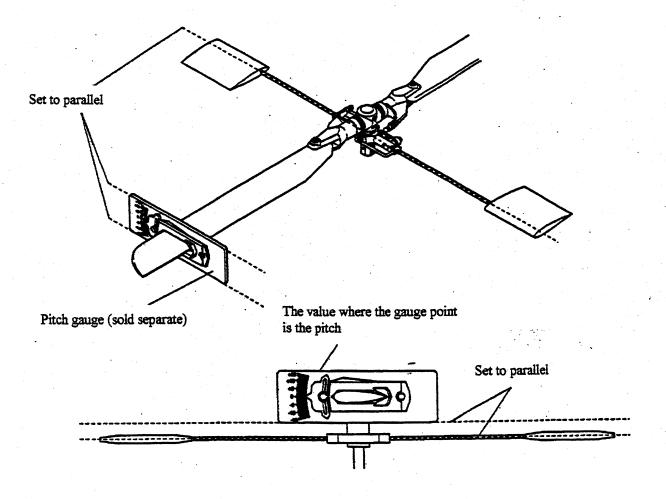
8-15

Adjust main rotor pitch.

	Low pitch (Throttle stick at bottom)	Hovering (Throttle stick at middle)	High pitch (Throttle stick at highest)
Hovering Mode	-1°	5.5°	12°
Aerobatic mode	-5°		90
Autorotation	-4°		13°

Caution!

Use these values just as reference. Final pitch may vary depends on engine, muffler, and fuel you use. Adjust the pitch to your preference with test flights.





Caution before flight and tracking adjustment

-1 Caution before flight

Caution! Flying R/C helicopters including Mercury M requires a skill. You should seek for assistance from more experienced pilots.

Caution! Make sure to read "Read Me First" section of this instruction before flight and confirm all the caution items.

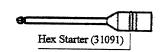
9-2 Engine adjustment

- Follow your engine instruction manual when you adjust needle valve and slow mixture. Then fine tune needles on actual flight.
- Engine condition will vary due to the deference of fuels, plugs, weight of helicopter, flying field's altitude and weather. Seek for help from experienced pilots.

9-3 Hex Shaft Starter

- Attach hub of Hex starter shaft onto starter
- Confirm starter shaft rotating direction, and insert the tip of starter shaft into Hex starter cup. Then start engine.
- After engine starts, wait until Hex start shaft stops rotating, then remove the shaft.

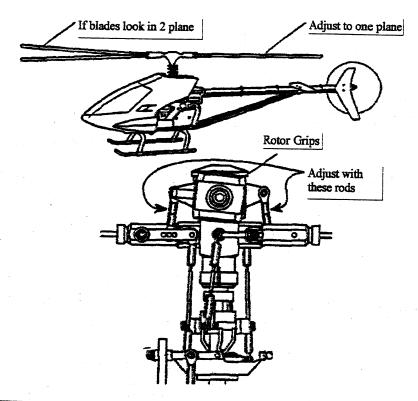
Caution! Insert Hex Starter into Starter HEX as straight as possible then start engine



-4 Tracking Adjustments

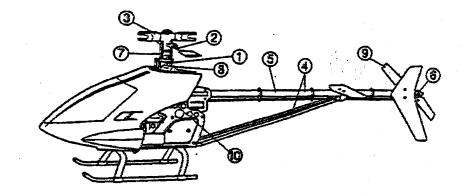
- Set helicopter over 5m away from you. and raise throttle stick slowly.
- When helicopter almost lift off from ground, look at rotor dish from side and check if both blades are rotating on the same track.
- 3. If blades look in 2 planes, raise the pitch on lower side of blade, or lower the pitch on higher side of blade until blades look in one plane. Adjust M2.3 X 10 Push Rod lengths attached to the Pitch Arm of rotor head. (By turning universal links.)

Caution! If you set pitch too low, you will over-rev rotor blades and could be vary dangerous. Adjust the pitch carefully.



Caution! Make sure stay away from helicopter during flight (at least 5m) to avoid a danger

- Never use the main rotor blades after overturn or crash. Although they may appear no damage, they
 might have internal crack. If you fly with those blades, they may break off during flight and increases a
 sever risk.
- Replace the parts if you find any scratches or damages. Inspect the parts below thoroughly
 - 1. Bent mast
 - 2. Bent stabilizer bar
 - 3. Bent spindle
 - 4. Bent tail boom and boom supporters
 - 5. Damages of tail drive belt
 - 6. Bent tail output shaft
 - 7. Bent push rods
 - 8. Damages on universal links
 - Damages on tail rotor blades (especially on tips)
 - 10. Damages on all the gears



 Inspect receiver, servos, and gyro system and check functionality. If you find any abnormalities, request service for radio manufacturer.

Important! Since a helicopter uses a lot of wearable parts (bearings, universal links, etc.,) check entire helicopter routinely before and after flight even you do not overturn or crash. If you find any abnormalities, replace them with new parts. Never fly until you repair.

Explored view and Parts List

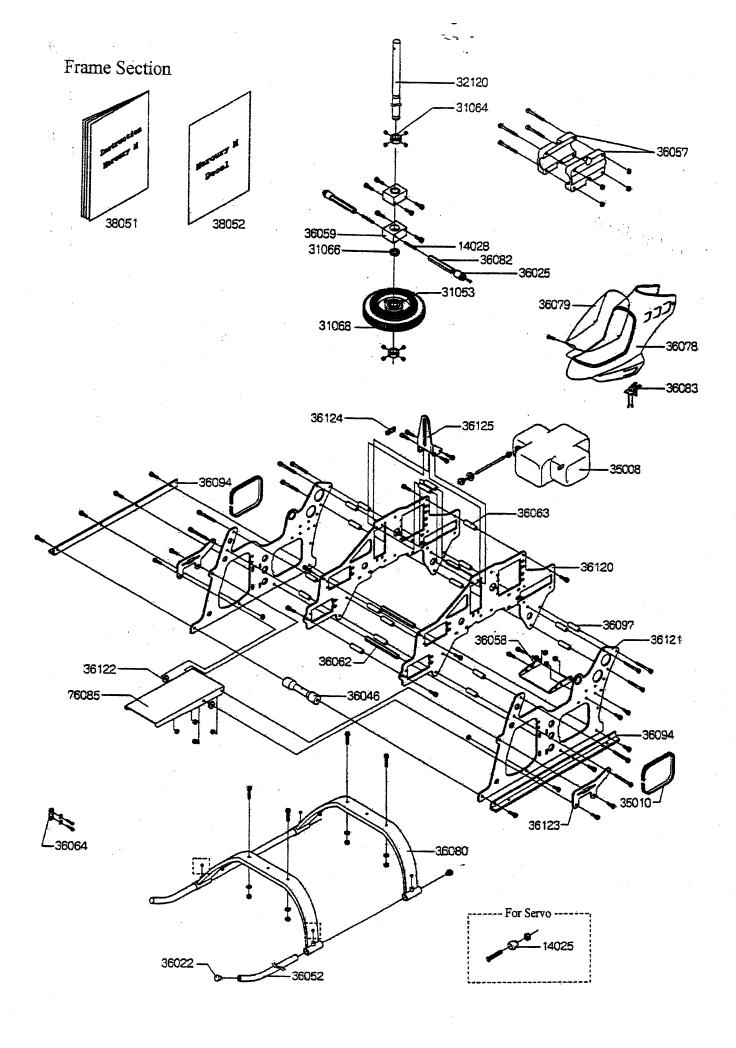


PARTS

Mercury M Kit Explored View and Parts List **Engine Section** -31103 -51010 -31074 Helicopter Engine (Sanwa-Kalt does not offer) 31113 (sold separate) 14006

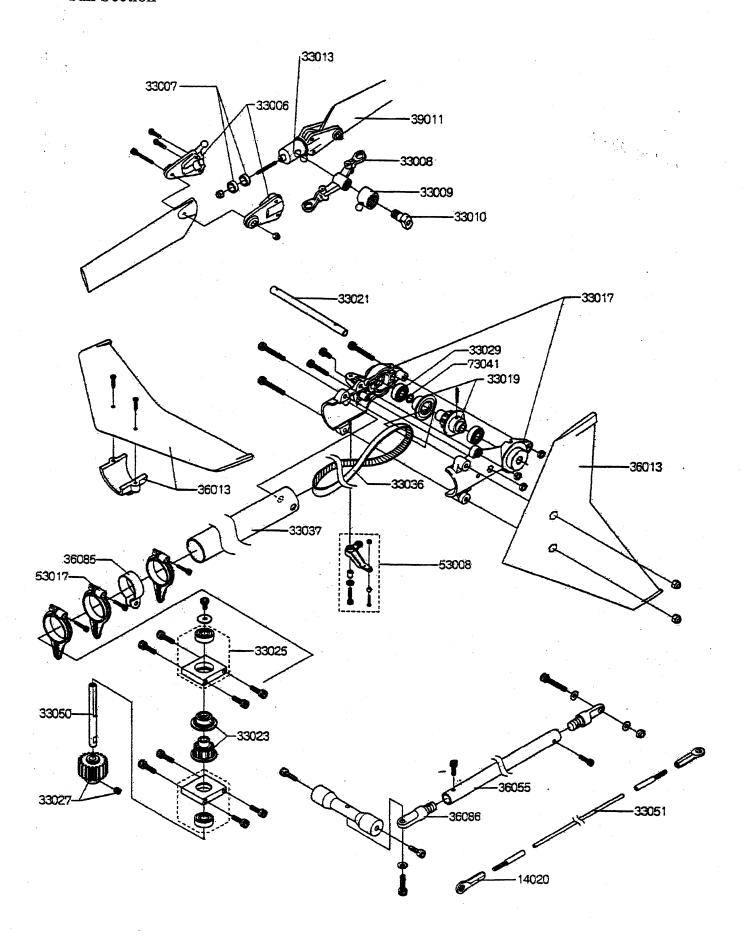
Engine Section

gme > conon		
Part Number Description	QTY	Note
10001 1960ZZ B. Bearing	1	Same as 1002-013-6
10002 1910ZZ B. Bearing	1	Same as 1002-011-6
14020 Universal Link	10	Same as 0400-070-7
14006 Pushrod M2.3 X 60	2	Same as 0400-065-7
31072 Inner Shaft α 30	1	
31073 Starter Clutch Shoe	1	
31074 Starter Washer	1	
31087 Cooling Fan	1	w/Beveled bolt
31090 Bering Case	1	
31102 Clutch Bell for Shaft Starter	1	Same as 0102-091-8
31103 Starter Hex α	1	Same as 0102-120-8 w/Set B.
31111 46 Flywheel	1	
31113 46 Muffler	1	Sold separate w/nipple & gascket
31115 46 Engine Mount	1	Total repaired with prior of gustaket
31116 46 Fan Cover	1	
51010 Starter Pinion Gear 10T	1	



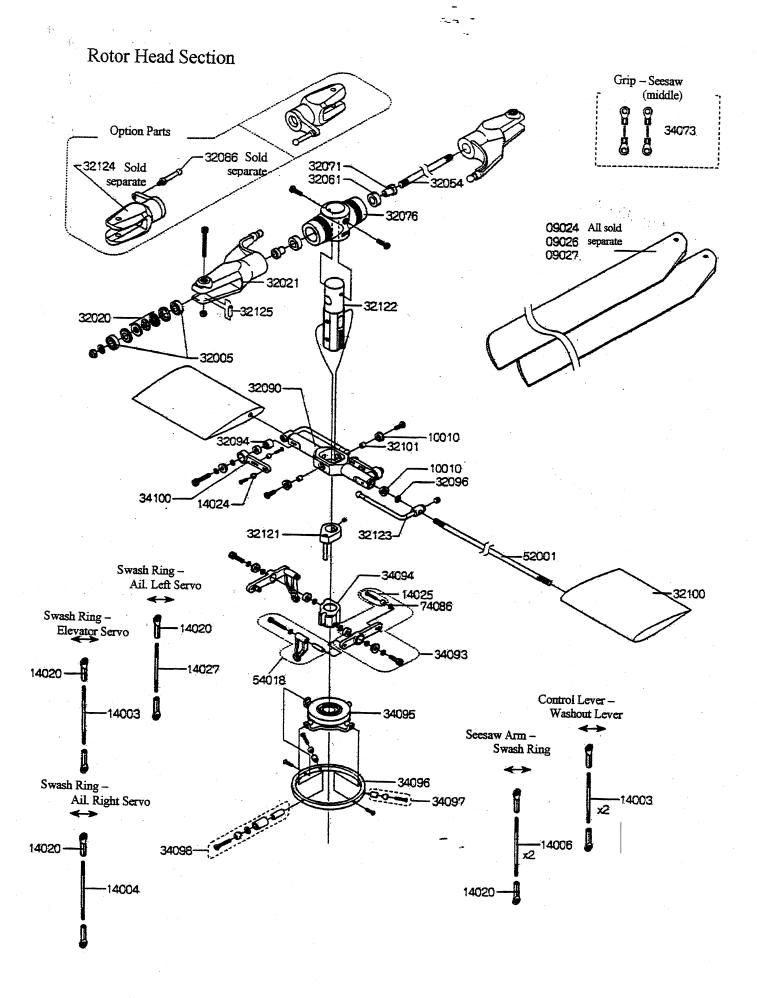
Frame Section

Frame Section		
Part Number Description	QTY	Note
14015 Pushrod M3X 40	2	Same as 0400-085-7
14020 Universal Link	10	Same as 0400-070-7
14025 Joint Ball II B	1	w/M2 X 10 Bev. ⊕ Bolt
14028 Threded Rod M3 X 9	2	Box Solver
31053 Auto Rotation Hub Assy	1	
31064 Mast Stopper	1	w/Set B.
31066 Mast Washer	1	
31068 Main Gear	1	
32120 Main Mast	1	
35008 Fuel Tank (290cc)	1 set	w/silicon tubing S, clunk, grommet, & nipple
35010 Floating Rubber	2	womeon taking o, crank, grommer, & nipple
35022 Skid Foot Cap	1 set	
36025 Canopy Holder	1 set	
36046 Bottom Cross Member	2	
36052 Skid Foot	1 set	
36057 Tail Boom Retainner	1 set	
36058 Gyro Mount	1	
36059 Bearing Case A (w/1910ZZ)	1	
36062 Cross Member L62	3	
36063 Cross Member C	1	
36064 Servo Set Plate	10 set	w/TP Bolt, P. Washer
36078 Body Set		w/ Canopy
36079 Canopy	1	
36080 Landing Gear	1 set	w/Set B.
36082 Canopy Stay	1 set	
36083 Body Catch	1	
36094 46 Lower Angle L,R	1 set	
36097 46 Member	10	
36120 Upper Frame	1 set	
36121 Lower Frame	1 set	
36122 Sub Frame Spacer	2	
36123 Sub Frame Stay	2	
36124 Elevator Servo Spacer	1	
36125 Swash Plate Support	1	
38051 Mercury M Instruction	1	
38052 Mercury M Decal	1	
76085 Sub Frame	1	



Tail Section

Part Number Description	OTY	Note
33006 Tail Rotor Grip	1 set	
33007 Tail Rotor Grip Bearing	2	L830 Open
33008 Tail Pitch Yoke	1	
33009 Tail Pitch Slider	1	
33010 Slide Bushing	1	
33013 Tail Rotor Hub	1	w/M3 X 19 Set B.
33017 Tail Transmission Case (Belt)	1	
33019 Output Pulley	1	
33021 Input Pulley	1	w/Spring pin
33023 Bearing Case (w/L1350ZZ)	1	
33025 Input Shaft (Belt)	1	
33027 Input Gear	1	w/ Set B.
33029 Ball Bearing L1350 Open	2	
33036 Belt 630XL	1	
33037 Tail Boom	1	
33050 Input Shaft	1	
33051 Tail Push Rod	1 set	w/Piano wire, rod ends
36013 Tail Fin Set	1 set	w/Vertical & Horizontal Fin, bolts
36055 Tail Supporter Set	1 set	w/Ends, Cramp, bolts
36085 SUS Tail Supporter Cramp	1	Same as 0601-137-6
36086 Tail Supporter End	2	
39011 Tail Rotor Blade	2	
53008 Tail Pitch Lever Set	1	w/Bolt, bushing, ball
53017 Tail Bracket	3	w/Cap B.
73041 Ø3 X Ø7 X t0.3 Washer	10	



	NOTO1 11cac Decitor		
Part Number	Description	QTY	Note
09024	Main Rotor Blade SK570GW	1 Set	
09026	Main Rotor Blade SK570WH	1 Set	
09027	Main Rotor Blade SK570WS	1 Set	
10010	LF740ZZ B.Bearing	1	Same as 1002-009-6
14003	M2.3X35 Push Rod	2	Same as 1002-041-6
14004	M2.3X50 Push Rod	2	Same as 0400-006-7
14006	M2.3X60 Push Rod	2	Same as 0400-064-7
14020	Universal Link	10	Same as 0400-070-7
14024	Joint Ball II A	10	W/M2X7 Bev.+.B
14025	Joint Ball II B	10	W/M2X10 Bev.+.B
14027	M2.3X26 Push Rod	2	
32005	Main Rotor Grip Brg Set	2	L1350open X2
32020	Thrust Bearing Set	1Set	W/Thrust Holder
32021	Main Rotor Grip Brg	1	
	S30 α Spindle	1	
32061	S30 α Rubber Damper	2	
32071	Special Damper Collar	2	
32076	Yoke	1	
32086	46 Ball Arm(Grip)	2	
32090	46 Seesaw	1	
32094	46 Seesaw Arm Spacer	1Set	
32096	46 Stabilizer Washer	2	
32100	46 Stabilizer Blade	2	
32101	46 seesaw Collar	2	
32121	Anti-rotation Mount	1	W/M3X4 Set.B
32122	2 Center Hub	1	
32123	Control Lever	1	
32124	Metal Grip	1	W/Out (32086)
32125	Main Rotor Collar	2	
34073	3 46 Universal Link(Sort)	2Set	W/M2.3X10 Push Rod
34093	3 Wsahout Arm Ass'y	1	W/Bearing
34094	Wsahout Base	1	
34095	5 Swash Plate	1	
34096	Swash Ring	1	W/M2X6 Cap.B
3409	7 Swash Ring Collar	2	W/Joint Ball W/M2X13Cap.B
3409	8 Anti-rotation Coller Set	1Set	W/Inner Collar Outer Collar
3410	O Seesaw Arm II	1	W/Bearing
5200	1 Stabilizea Bar L-450	2	
5401	8 Universal Link E	1	W/Collar
7408	6 Joint Ball Spacer	4	

About Repair and Spare Parts

- * All the parts used in this kit are available as spare parts. Damaged parts caused by tip over or crash should be able to purchase through the hobby shop you purchased this kit.
- * In case of some parts out of stock at hobby shop, the hobby shop should be able to order for you by letting them know the helicopter type (Mercury M), exact description, and part number.
- * This helicopter is designed with a great consideration of overall strength and durability. Using other parts made by other manufacturer or reinforcing some parts may be dangerous. We will not be responsible for any problems or damages caused by the use of any parts other than genuine parts.
- * Follow this instruction when you reassemble and readjust this helicopter.

Request

- * In case you have any parts shortage on this kit, contact the hobby store you purchased kit from before you start assembling.
- * In case you find any defect on parts, contact to Kalt-Sanwa (or importer of your country) directly. We will replace with new parts.
- * We will not be responsible for any accidents or crashes due to the described items above or due to the imperfections of instruction and drawings.

Main parts and design for the Sanwa-Kalt helicopters are all registered or applied for patents or utility model rights. Reproduction of this instruction and drawings without permission are prohibited.

Specifications

Main rotor diameter	1,288mm
Over all length	1,2630mm
Over all weight	•
Recommended engine	3.1Kg
Radio equipment	OS MAX46FX-H (sold separate)
Gear ratio (engine : main gear: tail)	5 channels
Rody motorial	8.8:1:4.6
Body material	P.P. Blow mold

Notice for correction on instruction manual

There was a mistake on our instruction manual, therefore, please correct the instruction note as following. We apologize for the trouble and inconvenience.

1.Procedure 4-1(Assembly of rotor head)

During the assembly of seesaw Arm II, please insert ϕ 3X ϕ 4.5X t0.7 plate washer in between seesaw arm spacer and seesaw arm II Note: Diagram indicates such instruction but, there was no explanation.

2. screw set

There is a Black Joint Ball packed in the SCREW BAG of 6 however, please do not utilize this black joint ball. Instead of this part, please utilize the Joint Ball II which is packed separately.

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Mercury Assemble & Handling Instruction Revising

Thank you for purchasing Mercury. There are some corrections and updates on the original instruction. Please read this revised instruction thoroughly first, before you start assembling.

Step 3-2 [Change on Assembling]

If you cannot push Input Gear in, remove upper or lower bearing case once then install gear.

Step 5-4 [Packing error on Screw Bag]

There was packing process error on one of screw bags for Step 5-4. It should contain M2.6 X 10 CAP B. [2], but M2.6 X 10 TP (Tapping) B. were packed instead. Please use M2.6 X 10 Cap B. [2] in the separate bag.

Step 6-5 [Packing error on Screw Bag]

There was packing process error on one of screw bags for Step 6-5. It should contain M2 X 12 CAP B. [2], but M3 X 12 Cap B. were packed instead. Please use M2 X 12 Cap B. [2] in the separate bag.

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