

RADIO CONTROLLED ENGINE POWERED HELICOPTER

# CONCEPT 30<sup>®</sup>

# SFR

- **FLAPPING ROTOR HEAD FOR OUTSTANDING STABILITY AND MANEUVERABILITY.**
- **MOST DURABLE, 30 SIZE HELICOPTER.**
- **COMPLETE STEP-BY-STEP INSTRUCTION MANUAL.**
- **EASY ACCESS CONE START SYSTEM.**
- **ATTRACTIVE AND AERODYNAMIC BODY DESIGNED FOR OUTSTANDING FLIGHT.**
- **METAL PIVOT POINTS FOR PRECISION AND SECURITY.**

**REQUIRES:** 5-Channel Helicopter Radio,  
Gyro, and 30 Class  
Helicopter Engine



#### **WARNING**

This Radio Controlled Helicopter is not a toy! It is a complex machine that is capable of serious bodily harm and property damage. IT IS YOUR RESPONSIBILITY AND YOURS ALONE - to complete this kit correctly, properly install all R/C components, and to test fly the helicopter. IF YOU ARE JUST STARTING R/C MODELING, CONSULT YOUR LOCAL HOBBY SHOP OR WRITE TO THE ACADEMY OF MODEL AERONAUTICS TO FIND AN EXPERIENCED INSTRUCTOR IN YOUR AREA.

**KYOSHO<sup>®</sup>**  
NO. 3565H

## BEFORE BEGINNING TO BUILD

BEFORE BEGINNING TO BUILD THE CONCEPT 30 SR MAKE SURE IT'S THE RIGHT MODEL FOR YOU!

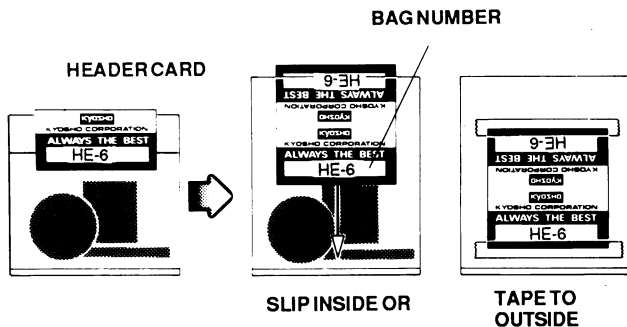
We want your experience at building this model to be a success. So before you remove any parts from their packages and begin assembly:

- Read through the entire manual carefully to make sure that you are thoroughly acquainted with the model and know what you are undertaking.
- If for any reason you think this model may not be for you, **Please Note:** Your hobby dealer cannot accept a model kit for return after assembly has begun. Return it immediately if you have doubts or concerns.

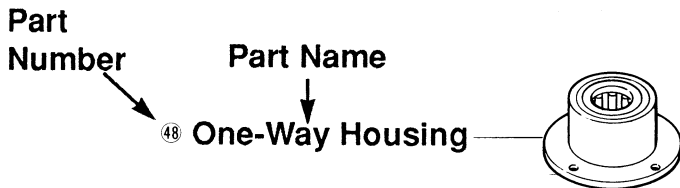
The Kyosho Concept 30 SR is a sophisticated, high-performance gas powered helicopter with many moving parts. Unlike radio-control airplanes, this style kit requires more general maintenance and patience to operate successfully. But if you're ready for exciting flying you're ready for the Concept 30 SR. If you are a beginner, we strongly urge you to install the DX version Heavy Aluminum Stabilizer Blades No. KYOE1140. This will make the Concept 30 SR much more stable and predictable.

## DON'T LOSE YOUR PARTS

This Kyosho instruction manual uses a cross reference system to help you locate all of the bagged parts. DO NOT open each bag and dump out the parts. Carefully remove the header card from the bag and discard the staple. Slip the header card into the bag or tape it to the outside of the bag so that the bag number shows. These bag numbers are listed on pages 4 and 5 and will prove invaluable when locating parts.



In each step of assembly each part will be labeled with 1) The part number, and 2) Part name. To easily locate the part, check the Bagged Parts List on pages 4 and 5.



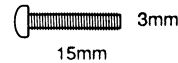
## PURCHASING PARTS FOR YOUR KIT

On Page 29-33 you will find a complete list of replacement parts. If by chance you need to replace a part, consult this guide for manufacturer stock numbers and contents.

## FINDING THE CORRECT SCREWS AND WASHERS IN THIS KIT

All nuts and bolts used throughout this kit are metric size. Therefore, some of the notations may not be familiar to you. An M3 nut is a 3 millimeter (3mm) nut. An M3 x 15 screw is 3mm in diameter and 15mm long. Some round parts may be labeled as a "M4 Washer" (a washer with a 4mm inside diameter) or a "3mm Bushing" (a bushing with a 3mm inside diameter). At various points throughout the manual these parts are labeled and pictured in their actual size on the left hand side of the the page. For your reference, 1 millimeter equals approximately .039 inches.

M3x15 Screw

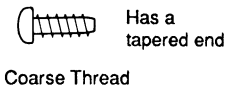


M4 Washer



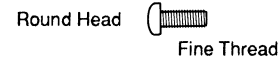
A few different types of screws are used in the construction of your model. Here are some examples and how they will be indicated in the instructions for example, Self Tapping will simply be S/T screw.

### Self Tapping (S/T)



A self tapping screw has a coarse thread and is used to screw into plastic. Be careful not to tighten the screw too much. This may strip the plastic.

### Screw



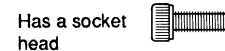
Screws have a fine thread and are used with nuts most of the time. They are for high stress joints where strength is required.

### Flat Head Screw (F/H)



Flat head screws have a fine thread and a tapered head. This allows the head of the screw to be flush with the part it is holding so that the screw does not catch on anything.

### Hex Head Screw (H/H)



Hex Head Screws have a socket head that takes a hex wrench in order to turn. These are for areas that require tight joints where normal screws may strip out.

### Set Screw



Set Screws have a socket head that takes a hex wrench in order to turn. These are for areas that require flush joints and where the fastener is tightened against a curved surface.

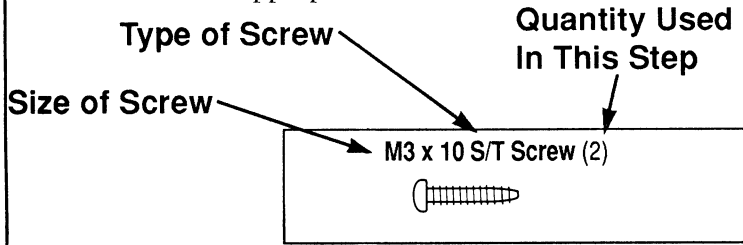
### Oval Head Screw (O/H)



Oval Head Screws are used on pivot balls to secure the ball but let the ball end pivot.

## FINDING THE SMALL PARTS

The box in the left margin of each page shows the small parts that will be used in each step. For ease of identification, these parts are shown actual size enabling you to place a screw directly on the picture to ensure you have selected the appropriate size.

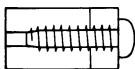


## HELPFUL HINTS

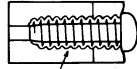
Some precautions need to be observed when building your Kyosho kit to avoid problems:

- 1.) Take your time and read the instruction manual thoroughly. It's not how fast you can assemble the kit but how well it flies once it is assembled.
- 2.) Try to avoid working over a shag carpet. In the event that a small part or screw should fall onto the carpet, it will be difficult to find.
- 3.) Place a mat or towel on the work surface where you will be building the kit. This will prevent parts from rolling off and will protect the work surface at the same time.
- 4.) Use a muffin tin or egg carton to separate screws, nuts, washers, etc. This will make it easier to locate the correct part.
- 5.) Avoid getting products like screw cement on the plastic parts. They can melt the plastic which will damage the model.
- 6.) Avoid flying the model in very cold temperatures. Both plastic and metal parts become brittle at low temperatures. In addition, grease, oil and fuel become thick causing premature wear and deficient performance.
- 7.) Trial fit all parts to ensure proper fit before attaching them permanently.
- 8.) Do not use excessive force when tightening self tapping type screws into plastic. Overtightening will cause the threaded portion of the plastic to strip. It is recommended to stop tightening when some resistance is felt after the threaded portion enters the plastic.

### CORRECT



### INCORRECT



Threads Stripped

- 9.) **IMPORTANT!** Note the Grease and Screw cement symbol throughout the manual and apply where shown.

Avoid using power screwdrivers when assembling your kit. They tend to overtighten screws.

## SPECIAL SYMBOLS YOU WILL SEE

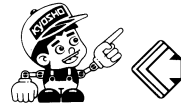
Certain symbols are used throughout the instructions. Pay attention to their location.



Points where Grease should be applied. This will reduce wear and friction and provide a smoother operating joint.



Points where Screw Cement must be used. This will prevent the the screws from coming loose from vibration.



When you see this face or symbol, there are steps that you should pay extra particular attention to when building this model.



This symbol is used for trimming decals with a scissors.



This symbol is used when plastic or precise trimming is required with a hobby knife.



This symbol is for a small hole made with an awl or the point of a hobby knife.



This is the symbol for a Hex Wrench that is required to tighten the screw. The wrench has the size required shown.



This symbol is used to show where a pliers is required to hold a part. It is best to wrap a rag around the part so the pliers do not scratch it.



This symbol is used to show where epoxy is required. A 30 minute epoxy is suggested to allow more time to align the parts.

## BAGGED PARTS LIST (1)

Check to see if all the parts are correctly bagged as they are listed in the " List of Bagged Parts." Your thorough understanding of

the assembly will enable you to build the kit without any difficulty. Check the components in the kit prior to assembly.

BAG #	KEY NO.	DESCRIPTION	Qty.	STEP USED
HE-1	192	Rotor Head (A)	1	(4)
	191	Rotor Head (B)	1	(5)
	161	Stabilizer See-saw	1	(1)
	7	Hiller Control Lever	1	(1)
	6	Control Lever Bushing	1	(1)
	12	Feathering Shaft	2	(3)
	13	Flapping Hinge Bushing	4	(3)
	14	Flapping Pin (3x18mm)	2	(3)
	202	Flapper Damper	2	(3)
	56	5mmx13mm Bushing	4	(3)
	204	Thrust Bearing	2	(3)
	203	Metal Spacer	2	(3)
	165	Main Rotor Grip	2	(3)
	16	Bearing Spacer	2	(3)
HE-2	128	6mmx12mm Bearing	2	(2)
	212	Pivot Ball	2	(3)
	30	Aileron Link Rod	1	(12)
	162	Ball End (Large)	2	(1)
	163	Stabilizer Control Rod	2	(1)
HE-3	184	Pitch Control Rod	2	(5)
	164	Flybar Control Rod	2	(5)
	148	Stabilizer Paddle	2	(2)
	46	One-Way Shaft	1	Assembled (7)
	150	Mast Stopper Ring	1	(7)
	47	Main Gear	1	Assembled (7)
	48	One-Way Housing	1	(7)
	49	8mmx16mm Bearing	1	Assembled (10)
	50	Engine Mount	1	(10)
	18	5mmx16mm Bearing	1	Assembled (12)
54	Counter Gear	1		
55	Secondary Shaft	1		
56	5mmx13mm Bearing	1		
57	Tail Drive Coupling	1		
58	2x10mm Drive Pin	1		
HE-4	175	Bevel Pinion	1	Assembled (10)
	62	Starter Cone	1	
	63	Cooling Fan	1	(10)

BAG #	KEY NO.	DESCRIPTION	Qty.	STEP USED
HE-4	227	Clutch	1	(10)
	208	Clutch Bell	1	(10)
	209	Clutch Lining	1	(10)
	151	Clutch Adapter (ENYA)	1	(10)
	154	Washer (ENYA)	1	(10)
	226	12mmx18mm Bearing	2	(10)
HE-5	32	Elevator Lever	1	(8)
	31	Elevator Link Rod	2	(8)
	120	Tail Control Link	1	(24)
	119	Ball Link	1	(24)
	33	Lever Pin	2	(8)
	59	2x14mm Link Pin	2	(8)
		E-Ring (E-2.5)	4	(8)
	188	Pitch Lever	1	(8)
	37	Lever Bushing (B)	1	(8)
	170	Aileron Lever	1	(8)
HE-6	212	Pivot Ball	5	(8)
	60	Threaded Insert (S)	3	(8)
	61	Threaded Insert (L)	1	(8)
	51	Main Frame (L)	1	(8)
	52	Main Frame (R)	1	(8)
	68	Fan Shroud (L)	1	(10)
HE-7	67	Fan Shroud (R)	1	(10)
	171	Mast	1	Assembled (6)
	39	Pitch Rod Guide	1	
	40	12mmx21mm Bearing	1	
	41	Mast Stopper	1	
	216	Swash Plate Assembly	1	
	169	Pitch Rod	2	
	166	Mixing Base	1	
	167	Mixing Lever	2	
	168	Cyclic Lever	2	
	24	Cyclic Lever Link	2	
	132	Bearing Collar	4	
	133	Bearing Washer	8	
28	Cyclic Pin (2x10mm)	2		

## BAGGED PARTS LIST (2)

BAG #	KEY NO.	DESCRIPTION	Qty.	STEP USED
HE-7	129	3mmx16mm Bearing	8	Assembled <b>(6)</b>
	172	Pitch Slider	1	
	173	Pitch Slider Link	1	
	174	Stopper Ring	1	
	137	10mmx15mm Bearing	2	
HE-8	34	Fore / Aft Cyclic Rod	2	<b>(21)</b>
	35	Left / Right Cyclic Rod	1	<b>(21)</b>
	122	Control Rod (Throttle)	1	<b>(22)</b>
	10	Ball End (Medium)	13	<b>(21)</b>
	126	Clevis	1	<b>(22)</b>
HE-9	72	Stabilizer Fin	1	<b>(17)</b>
	74	Vertical Fin	1	<b>(17)</b>
	73	Bracket	1	<b>(15)</b>
	81	Tail Gearbox (L)	1	<b>(16)</b>
	80	Tail Gearbox (R)	1	<b>(16)</b>
	144	Tail Grip (A)	2	<b>(14)</b>
	143	Tail Grip (B)	2	<b>(14)</b>
	210	Tail Blade	2	<b>(14)</b>
225	Guide Bracket	2	<b>(15)</b>	
HE-10	142	Thrust Bearing	2	<b>(14)</b>
	88	6mmx10mm Bearing	2	<b>(14)</b>
	83	5mmx10mm Bearing	2	<b>(16)</b>
	79	2x12mm Gear Pin	1	<b>(16)</b>
	75	Tail Drive Joint	1	<b>(16)</b>
	82	Tail Output Shaft	1	<b>(14)</b>
	78	Tail Output Gear	1	<b>(16)</b>
	76	8mmx14mm Bearing	2	Assembled
	77	Tail Input Gear	1	<b>(16)</b>
	140	Tail Center Hub	1	<b>(14)</b>
141	M3x14 Threaded Rod	2	<b>(14)</b>	
HE-11	27	Lever Bushing (A)	1	<b>(17)</b>
	84	Tail Shaft Thrust Collar	1	<b>(16)</b>
	85	Tail Pitch Lever	1	<b>(17)</b>
	178	Tail Pitch Plate	1	<b>(14)</b>
	179	Tail Pitch Ball End	2	<b>(14)</b>
	86	Tail Pitch Ring	1	Assembled
	87	Tail Pitch Ring Pin	1	<b>(14)</b>

BAG #	KEY NO.	DESCRIPTION	Qty.	STEP USED
HE-11	91	Slide Bushing	1	<b>(14)</b>
	180	2x8mm Pin	2	<b>(14)</b>
HE-12	107	Body Mount (A)	1	<b>(13)</b>
	108	Body Mount (B)	1	<b>(26)</b>
	106	Switch Mount	1	<b>(20)</b>
	96	Servo Mounting Plate	10	<b>(19)</b>
	94	Body Mount	2	<b>(8)</b>
	146	Grommet	2	<b>(29)</b>
HE-13	97	Wire Holder	2	<b>(20)</b>
	110	Tank Weight	1	<b>(11)</b>
	111	Tank Adapter	1	<b>(11)</b>
	113	Seal Washer	1	<b>(11)</b>
	112	Tank Cap	1	<b>(11)</b>
	114	Seal Nut	1	<b>(11)</b>
	115	Silicone Tube	1	<b>(11)</b>
	116	Silicone Tube (L)	1	<b>(11)</b>
HE-14	109	Tank	1	<b>(11)</b>
	99	Front Frame	1	<b>(9)</b>
	95	Sub Frame	1	<b>(9)</b>
HE-15	98	Frame Retainer	2	<b>(9)</b>
	153	Double Sided Tape	1	<b>(20)</b>
	152	Rubber Band	1	<b>(20)</b>
	102	Skid Cap	4	<b>(13)</b>
	181	Brace	2	<b>(13)</b>
	101	Skid	2	<b>(13)</b>
HE-16	226	Shaft Guide	3	Assembled
	177	Tail Boom	1	<b>(15)</b>
	182	Tail Control Guide	1	<b>(15)</b>
	183	Tail Control Rod	1	<b>(15)</b>
	121	Control Rod (Tail)	1	<b>(24)</b>
	176	Tail Drive Shaft	1	<b>(16)</b>
	103	Antenna Tube	1	<b>(13)</b>
HE-17	4	Flybar	1	<b>(1)</b>
	189	Decal	1	<b>(27) (28)</b>
		Pitch Guage	1	<b>(33)</b>

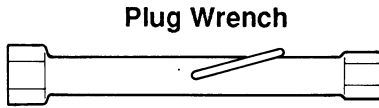
# REQUIRED TOOLS

THESE ARE INCLUDED IN THE KIT.

THESE ARE NOT INCLUDED IN THE KIT.



Hex Wrench Set

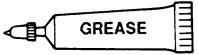


Plug Wrench

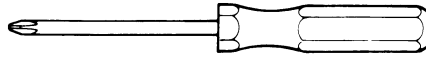
Screw Cement



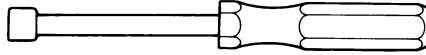
Grease



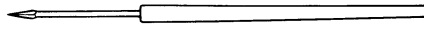
Phillips Screwdriver



5.5mm Nut Driver



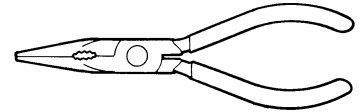
Awl



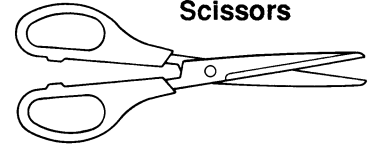
Hobby Knife



Needle Nose Pliers



Scissors



## ASSEMBLY STEPS (ASSEMBLE ALL STEPS IN ORDER AS SHOWN)

### 1 STABILIZER SEE-SAW ASSEMBLY

- M4x5 Set Screw (1)
- 10 Stabilizer Control Rod (2)

STEP 1

M4x5 Set Screw

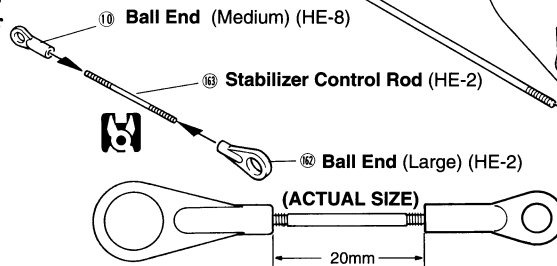
Thread the set screw into the (7) Hiller Lever.

7 Hiller Control lever (HE-1)



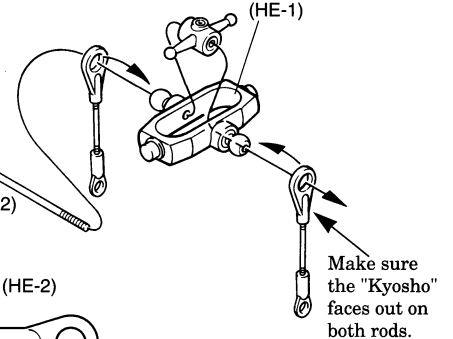
STEP 2

Assemble two Stabilizer Control Rods to the size shown below.

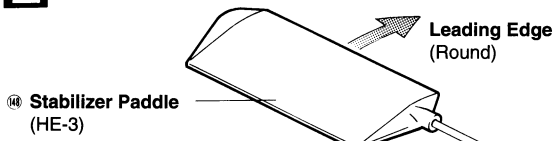


STEP 3

10 Stabilizer See-Saw (HE-1)

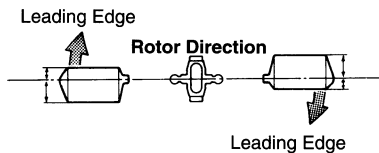


### 2 INSTALLATION OF STABILIZER PADDLES

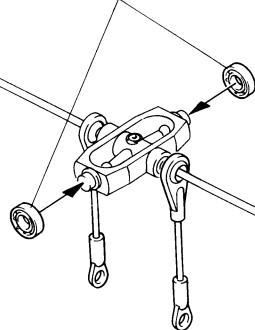


148 Stabilizer Paddle (HE-3)

Stabilizer Viewed From The Top



128 6mmx12mm Bearing (HE-1)



Screw on the (148) Stabilizer Paddles to 30mm from the end of the (4) Flybar.

148 Stabilizer Paddle (HE-3)

30mm

Leading Edge (Round)

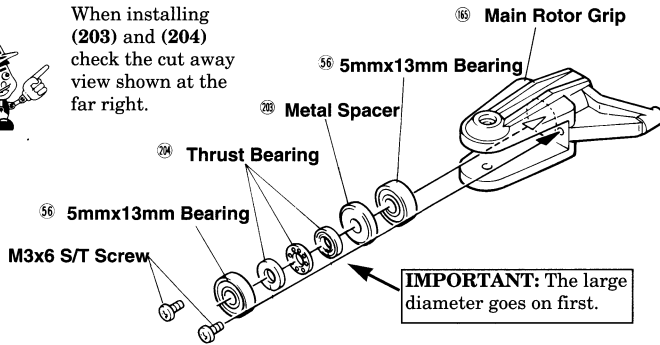
### 3 ASSEMBLY OF MAIN ROTOR GRIPS

The parts used in this step can be located in bag HE-1.

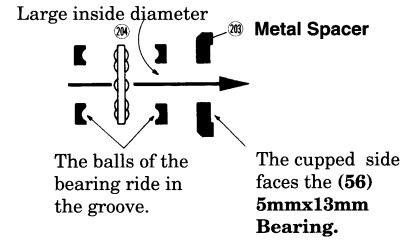


When installing (203) and (204) check the cut away view shown at the far right.

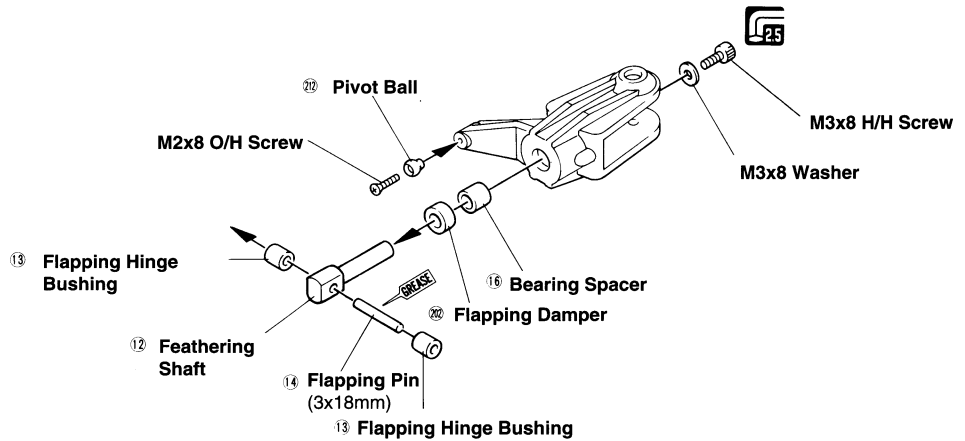
Assemble two of the Main Rotor Grips.



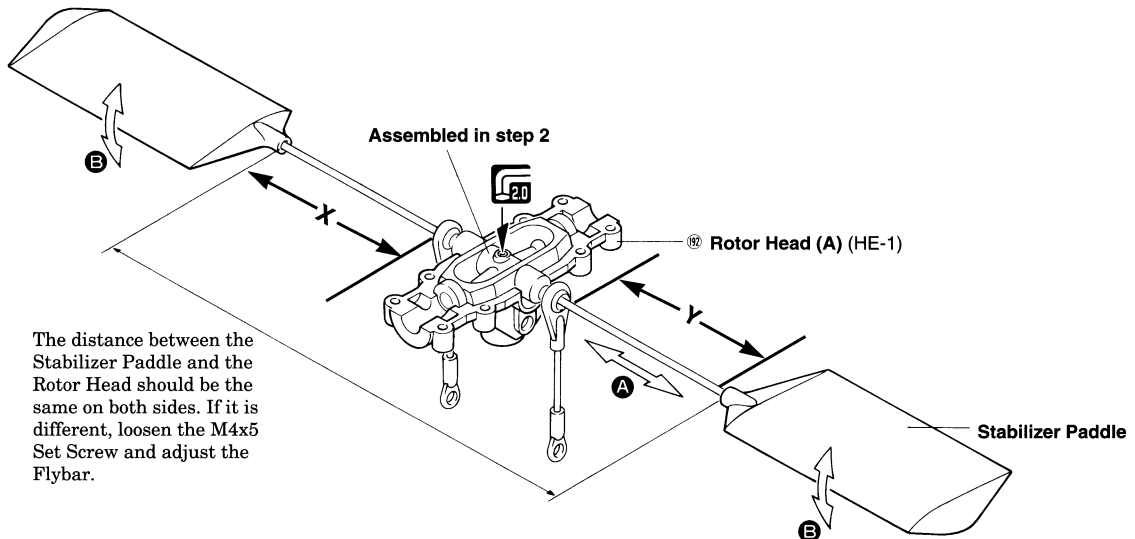
#### Cut away View



- M2x8 O/H Screw (2)
- M3x6 S/T Screw (4)
- M3x8 H/H Screw (2)
- M3x8 Washer (2)
- 20 Pivot Ball (2)

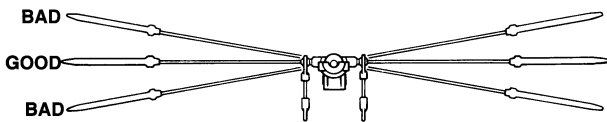


### 4 INSTALLATION OF ROTOR HEAD



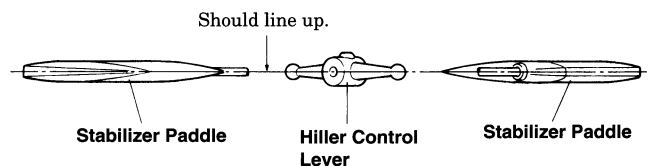
#### STEP 1

Move the Flybar so the distances (X) and (Y) (shown above) are equal. Then tighten the center set screw. Hold onto the Rotor Head (A) and balance the Flybar by applying decals or tape on the high paddle until the paddles balance as shown.



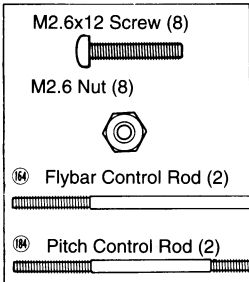
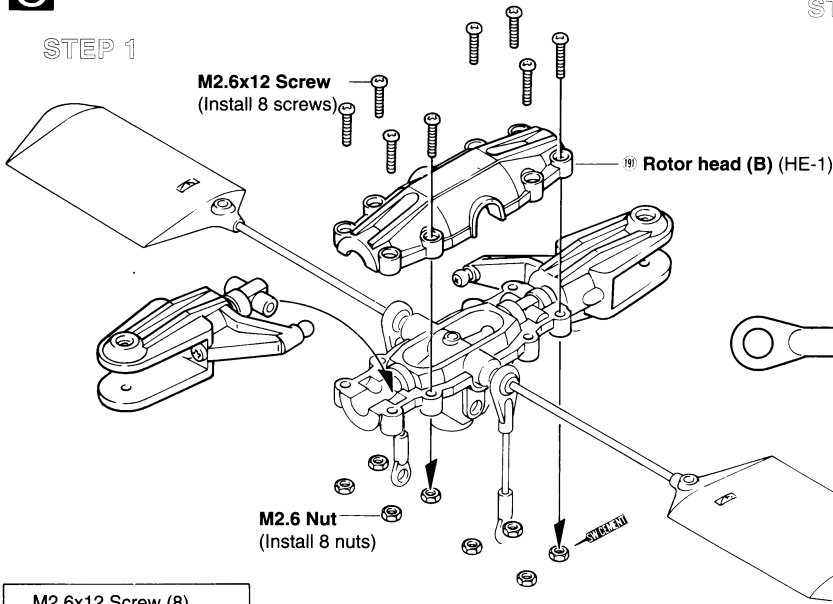
#### STEP 2

Make sure that both Stabilizer Paddles and the Hiller Control Lever are lined up in the same plane as shown.

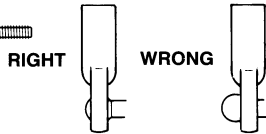


# 5 ROTOR HEAD COMPLETION

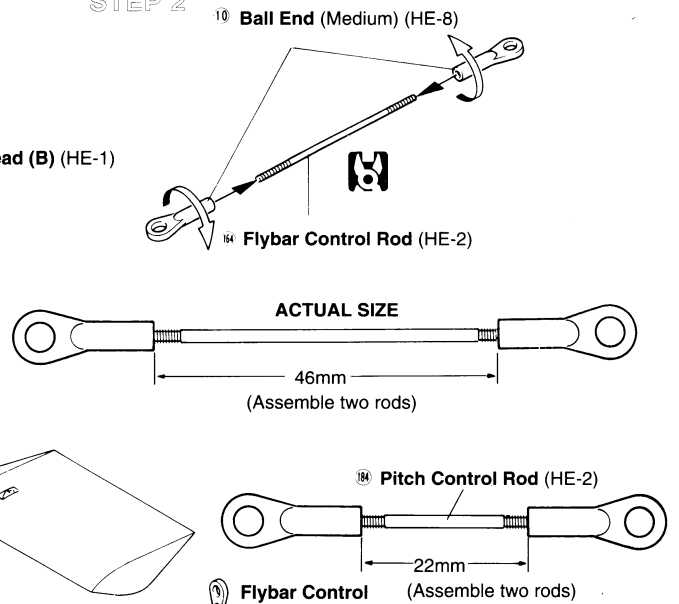
## STEP 1



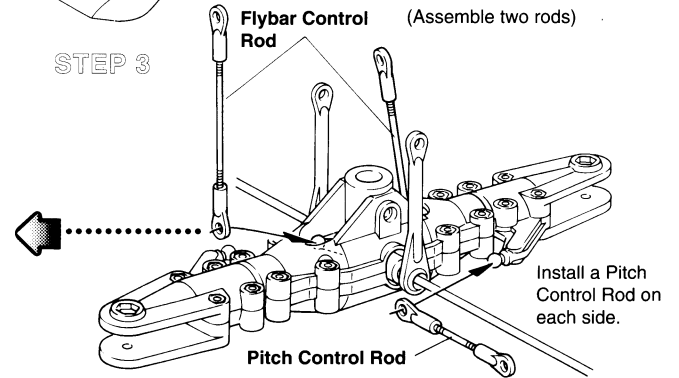
Make sure the "Kyosho" name faces out.



## STEP 2



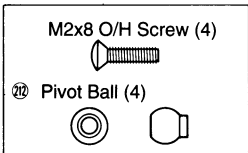
## STEP 3



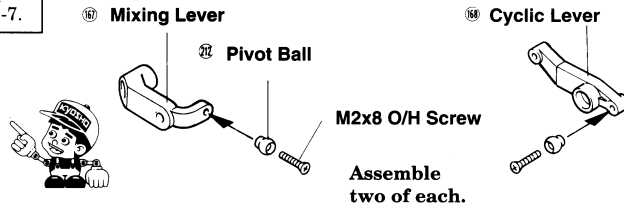
# 6 SWASHPLATE ASSEMBLY

The parts for this step are located in bag HE-7.

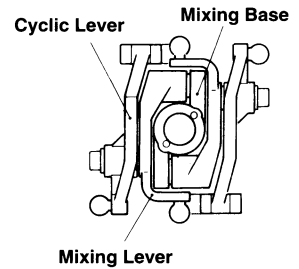
Be very careful not to overtighten any of the screws.



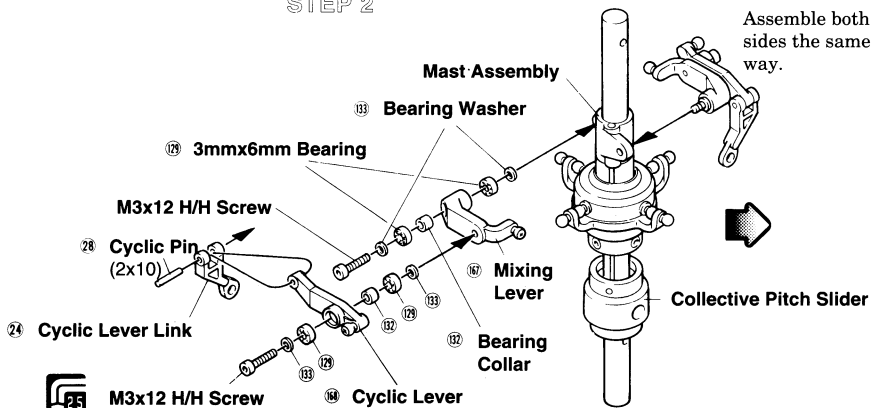
## STEP 1



Make sure all the linkages move smoothly.

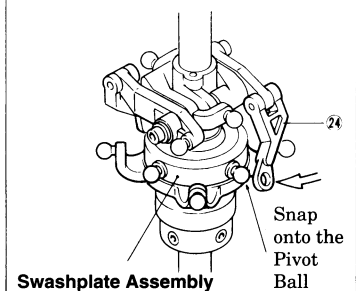


## STEP 2



## STEP 3

Snap the (24) Cyclic Lever Link onto the Swashplate as shown.

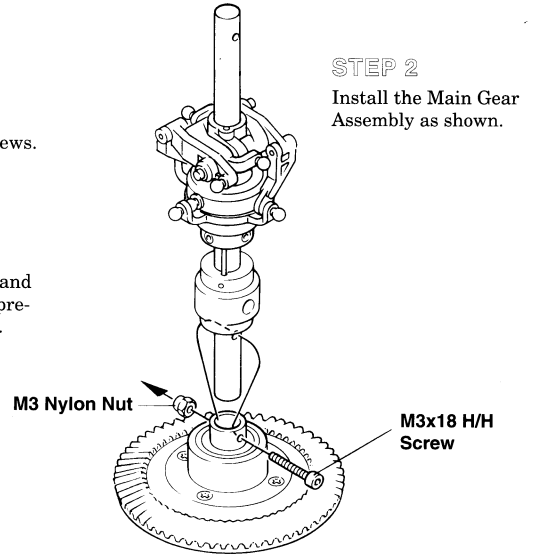
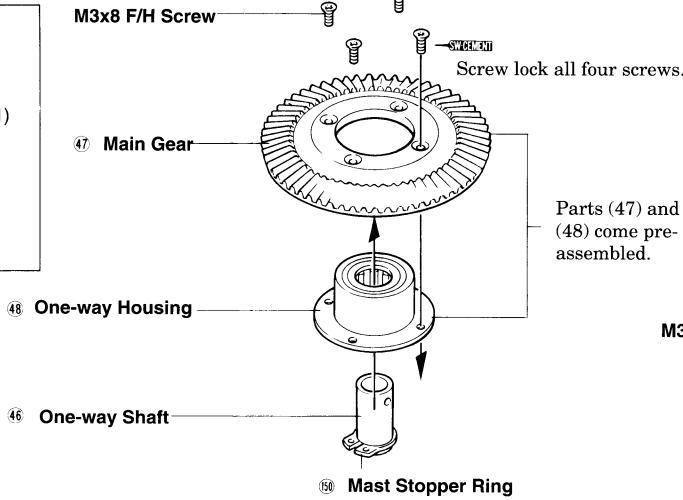




# 7 MAIN GEAR INSTALLATION

The parts for this step are located in bag HE-3.

- M3x8 F/H Screw (4)
- M3x18 H/H Screw (1)
- M3 Nylon Nut (1)

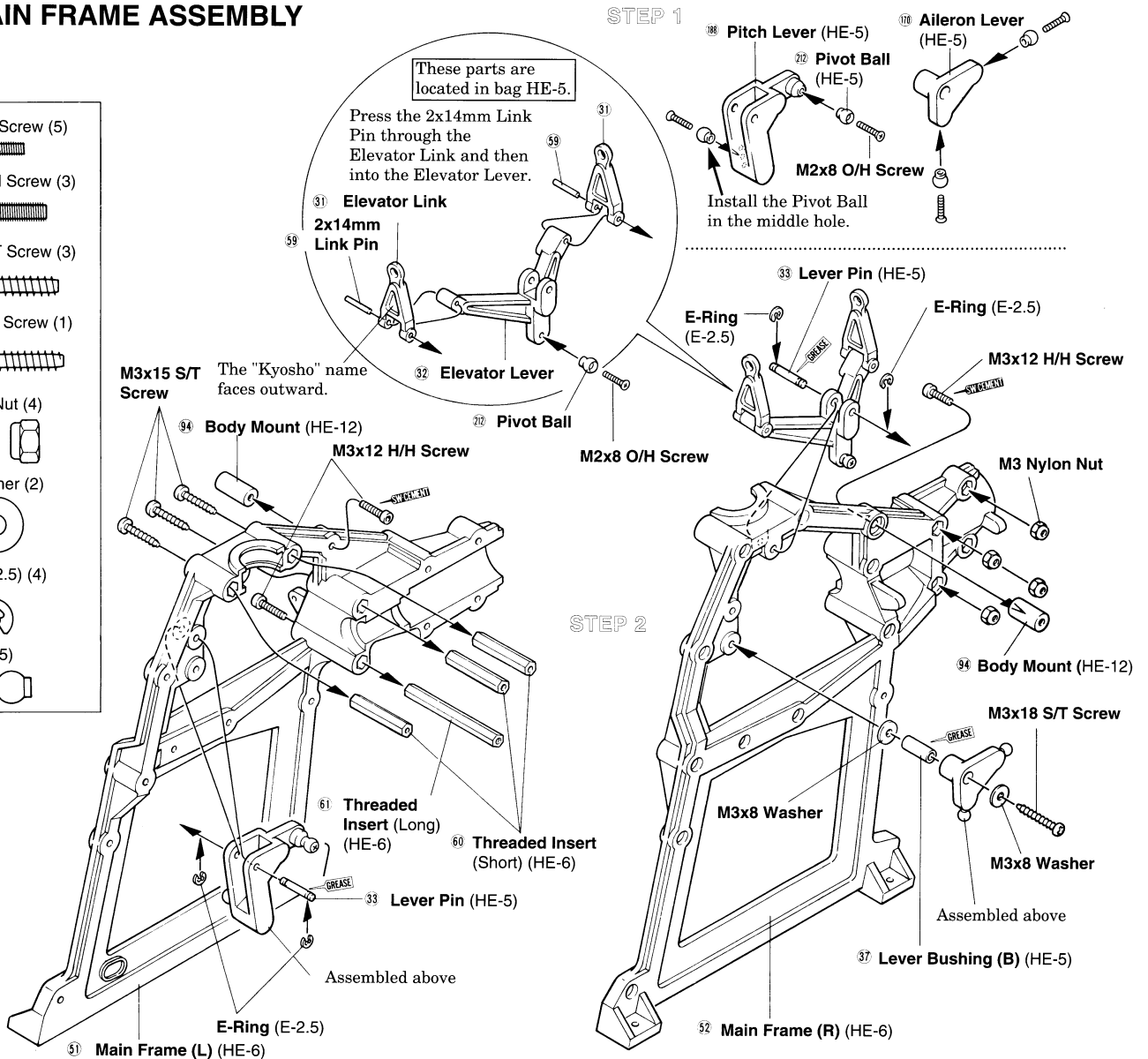


# 8 MAIN FRAME ASSEMBLY

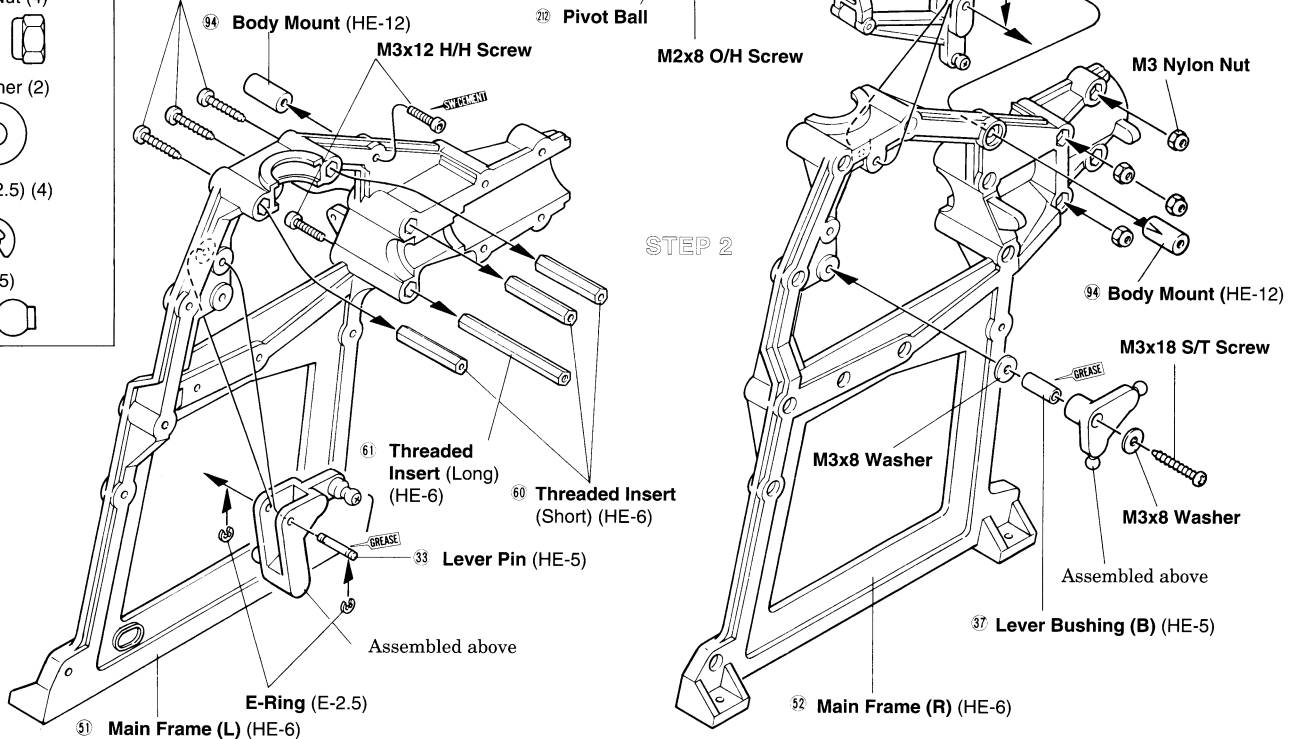
- M2x8 O/H Screw (5)
- M3x12 H/H Screw (3)
- M3x15 S/T Screw (3)
- M3x18 S/T Screw (1)
- M3 Nylon Nut (4)
- M3x8 Washer (2)
- E-Ring (E-2.5) (4)
- Pivot Ball (5)

These parts are located in bag HE-5.

Press the 2x14mm Link Pin through the Elevator Link and then into the Elevator Lever.

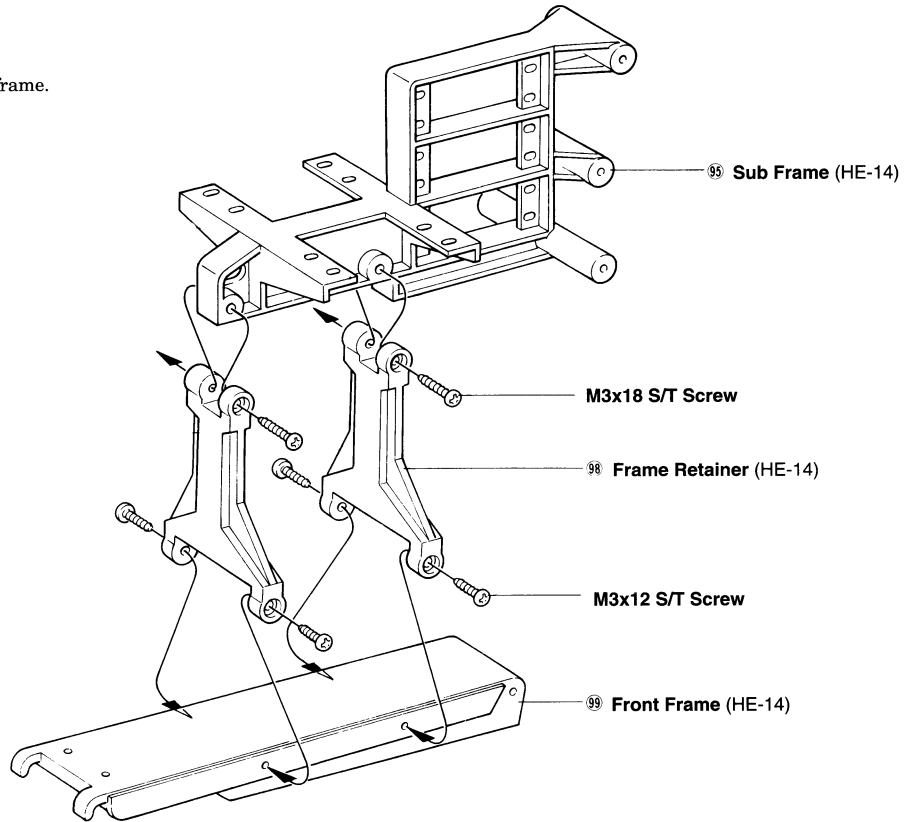
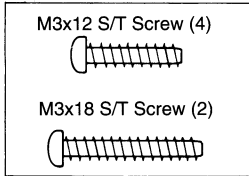


**STEP 2**



## 9 FRAME ASSEMBLY

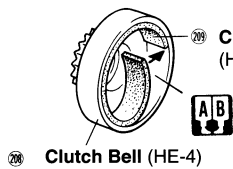
Join the lower assembly to the sub frame.



## 10 ENGINE PREPARATION

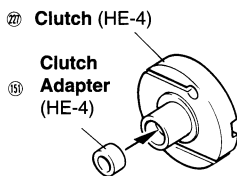
### STEP 1

Epoxy the (209) Clutch Lining in the (208) Clutch Bell.

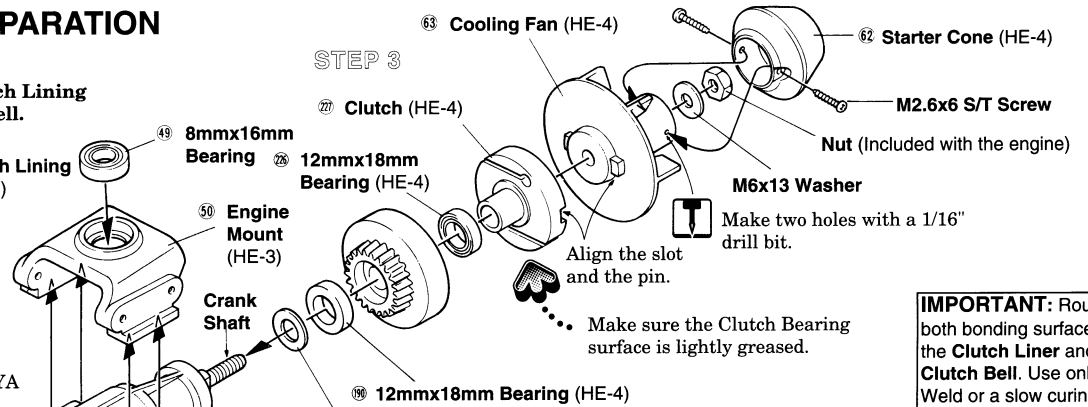


### STEP 2

Install the (151) Clutch Adapter if installing an ENYA engine in the Concept 30 SR.

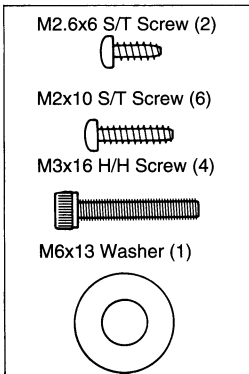
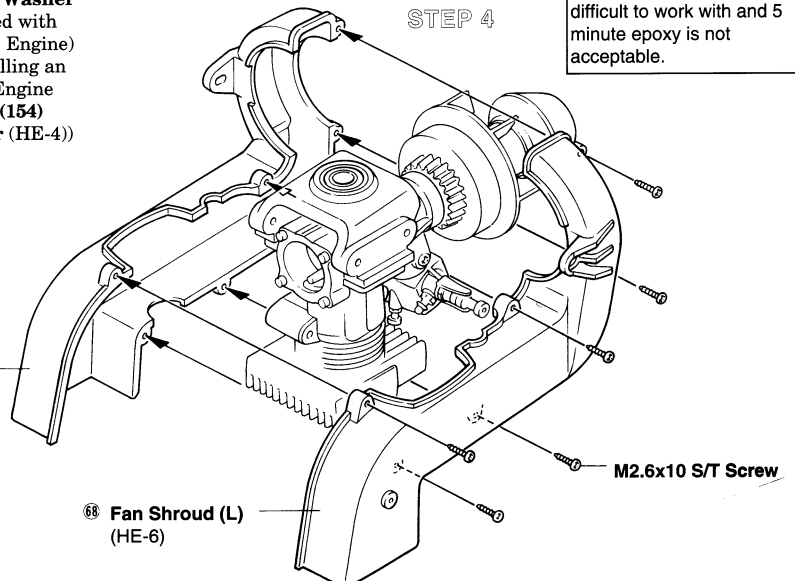


### STEP 3



**IMPORTANT:** Roughen both bonding surfaces of the Clutch Liner and the Clutch Bell. Use only JB Weld or a slow curing epoxy. Super Glue is difficult to work with and 5 minute epoxy is not acceptable.

### STEP 4

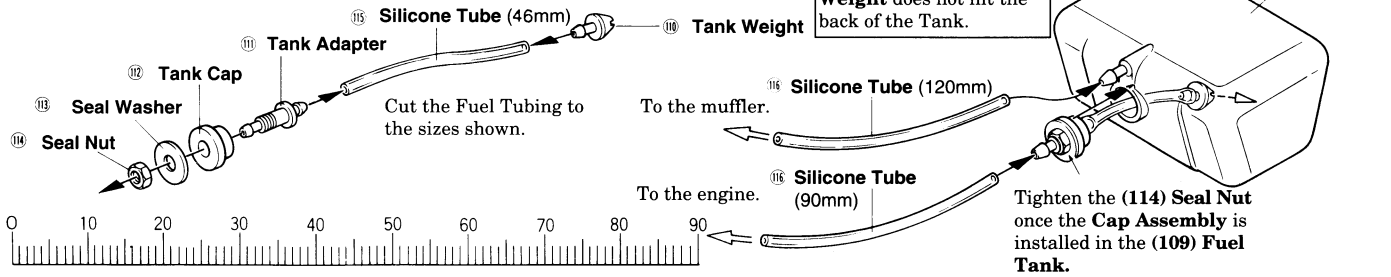


**NOTE:** Carefully remove the back plate and hold the crankshaft with a wood dowel while screwing on the clutch.

# 11 FUEL TANK ASSEMBLY

The parts used in this step are located in bag HE-13

**NOTE:** After assembly check that the (110) Tank Weight does not hit the back of the Tank.

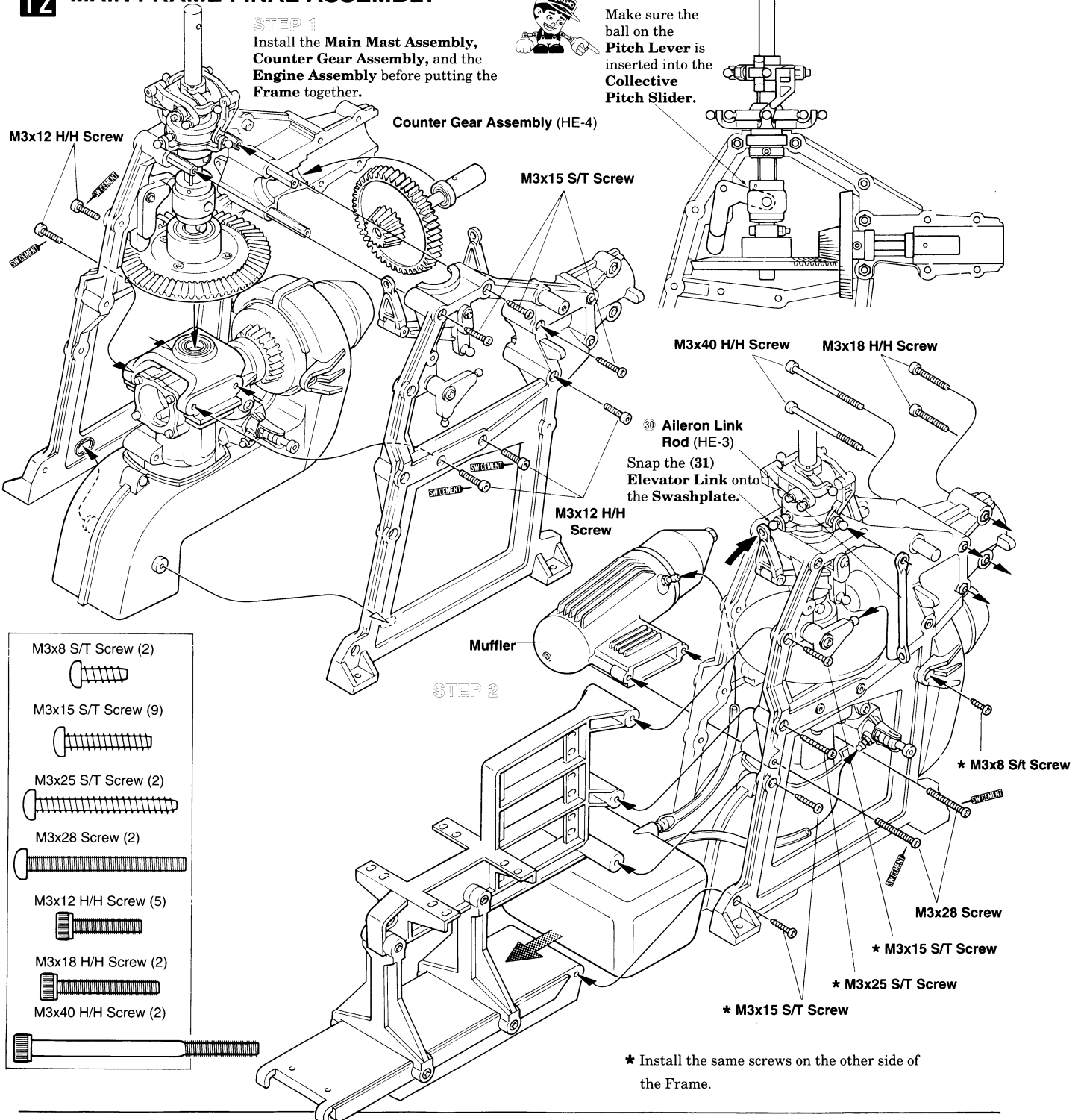


# 12 MAIN FRAME FINAL ASSEMBLY

**STEP 1**  
Install the Main Mast Assembly, Counter Gear Assembly, and the Engine Assembly before putting the Frame together.

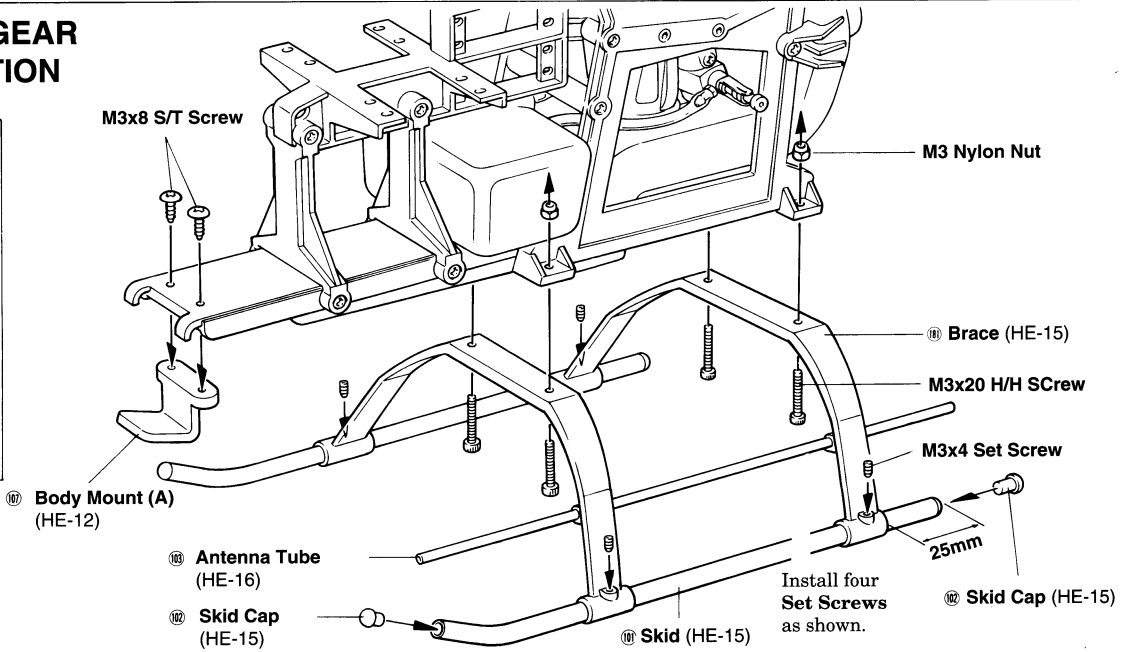


Make sure the ball on the Pitch Lever is inserted into the Collective Pitch Slider.



# 13 LANDING GEAR INSTALLATION

- M3x20 H/H Screw (4)
- M3x8 S/T Screw (2)
- M3x4 Set Screw (4)
- M3 Nylon Nut (4)

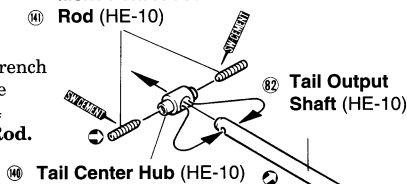


# 14 TAIL ROTOR ASSEMBLY

## STEP 1

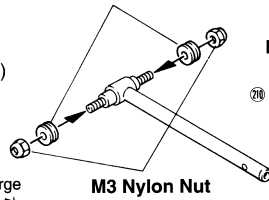
M3x14 Threaded Rod (HE-10)

Use a hex wrench to tighten the (141) M3x14 Threaded Rod.



## STEP 2

Thrust Bearing (HE-10)



Do not tighten the nylon nuts all the way, the (142) Thrust Bearings need to move.

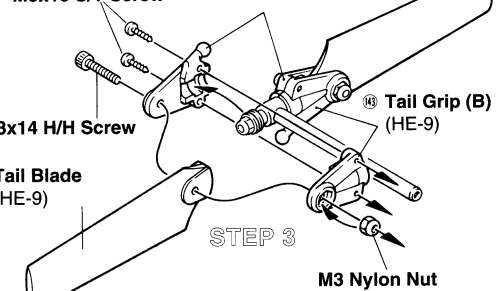
M3x10 S/T Screw

Tail Grip (A) (HE-9)

M3x14 H/H Screw

Tail Blade (HE-9)

## STEP 3



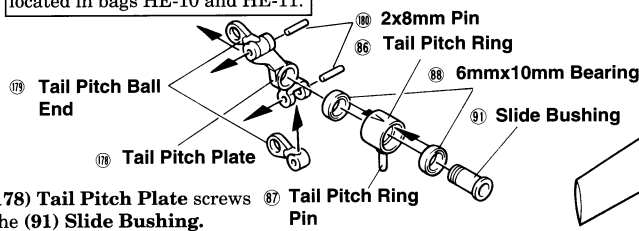
## STEP 5

Slide the Tail Pitch Assembly onto the Tail Output Shaft and connect the Tail Pitch Ball End to the ball on the Tail Grip.

- M2x10 S/T Screw (4)
- M3x14 H/H Screw (2)
- M3 Nylon Nut (4)

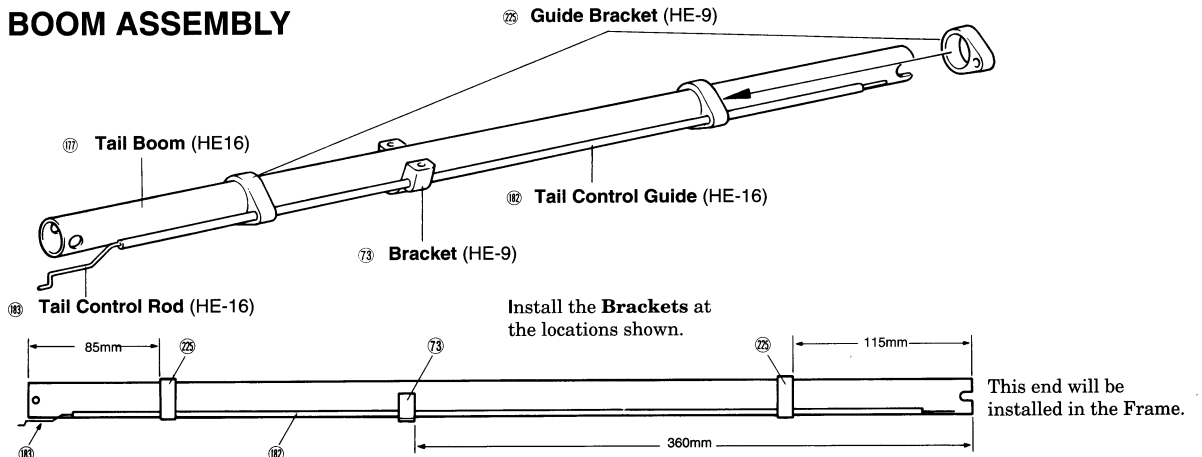
## STEP 4

The parts used in this step are located in bags HE-10 and HE-11.

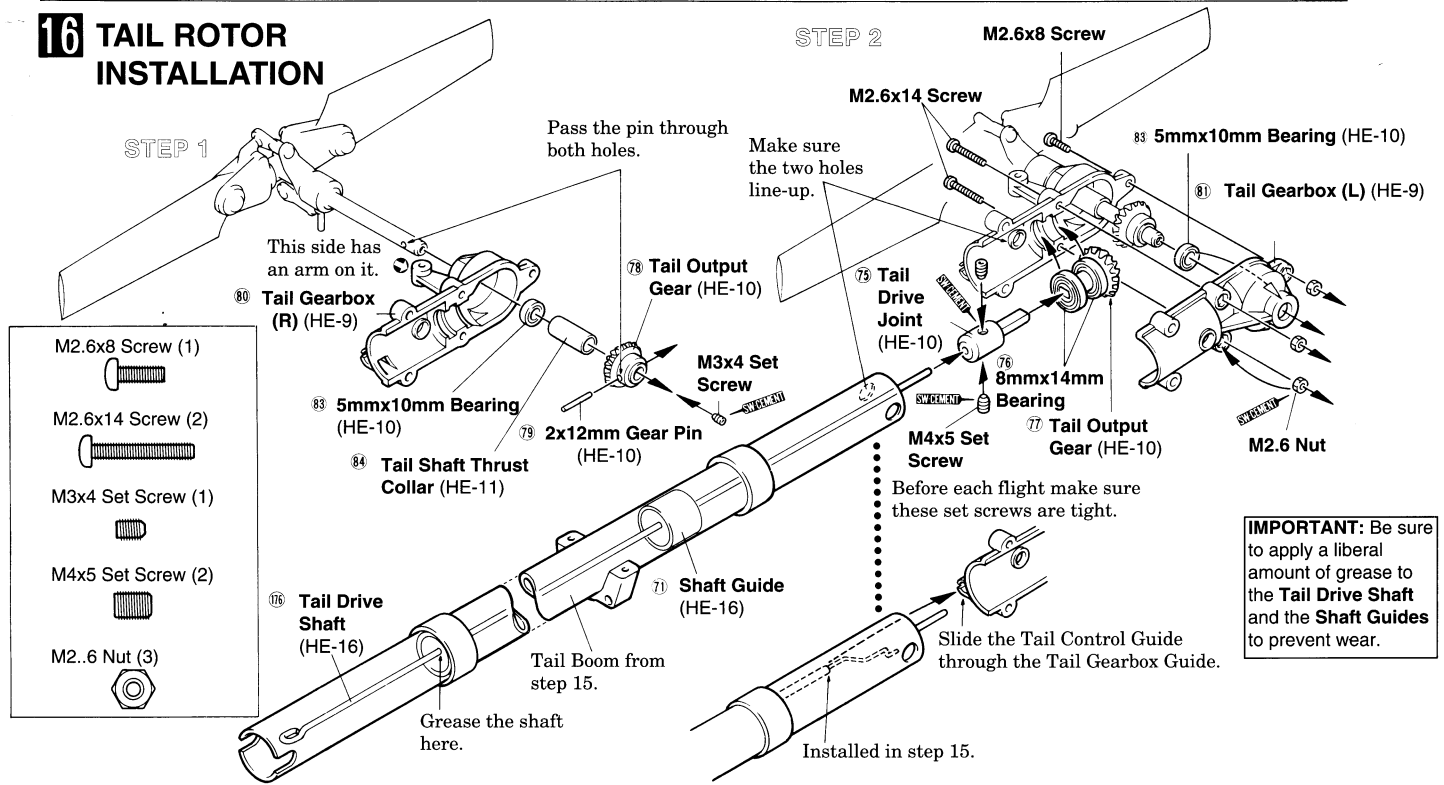


The (178) Tail Pitch Plate screws onto the (91) Slide Bushing.

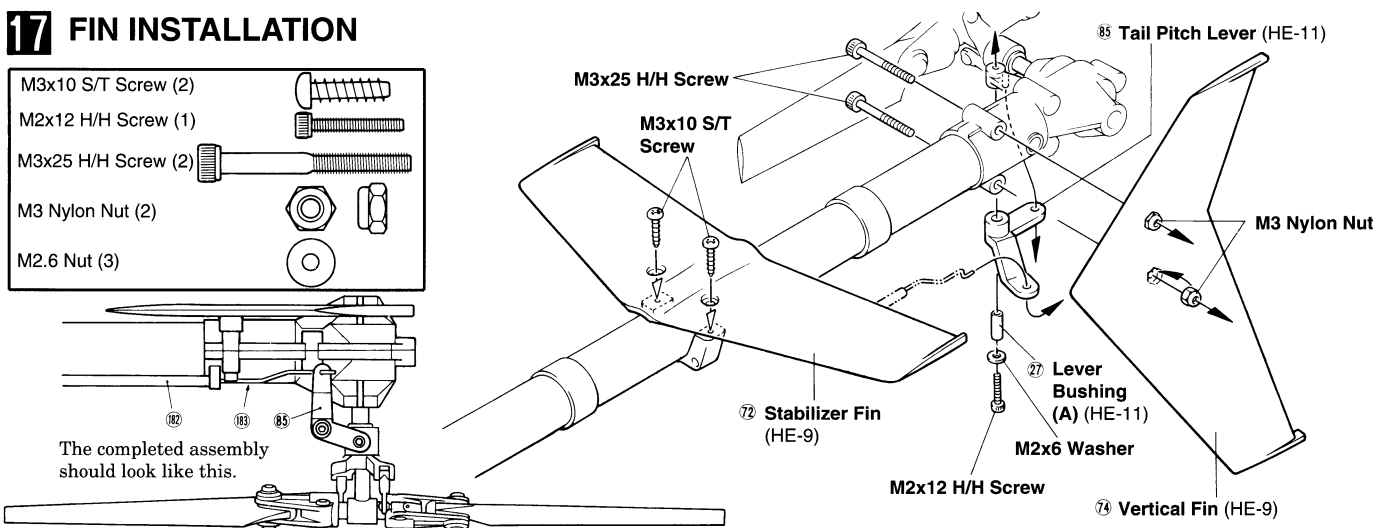
# 15 TAIL BOOM ASSEMBLY



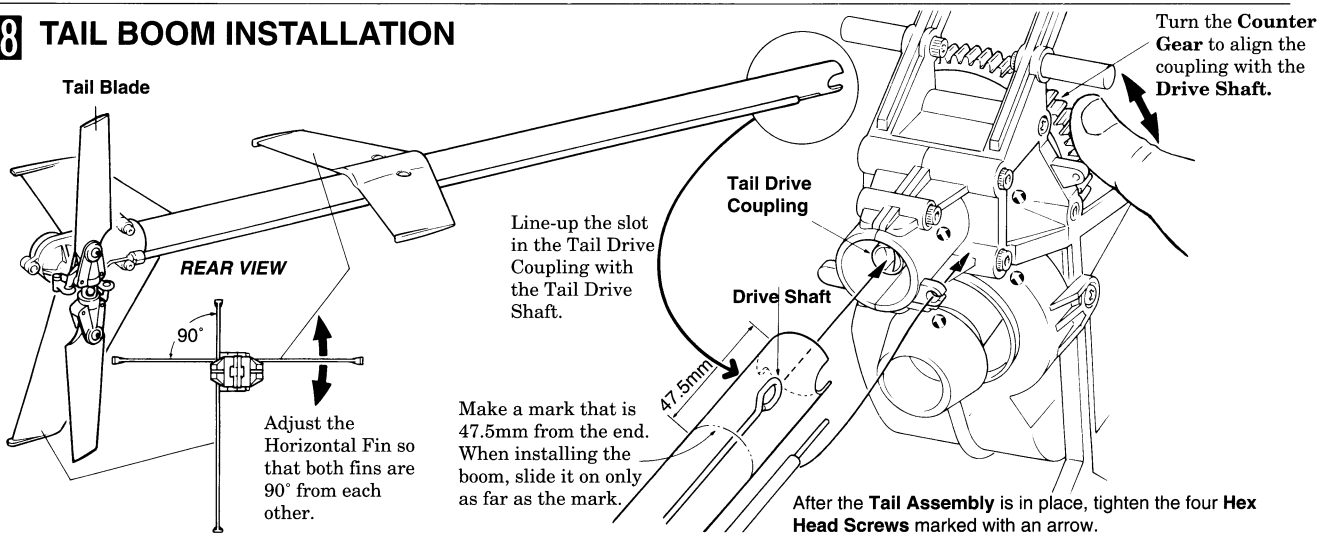
# 16 TAIL ROTOR INSTALLATION



# 17 FIN INSTALLATION

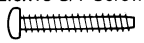
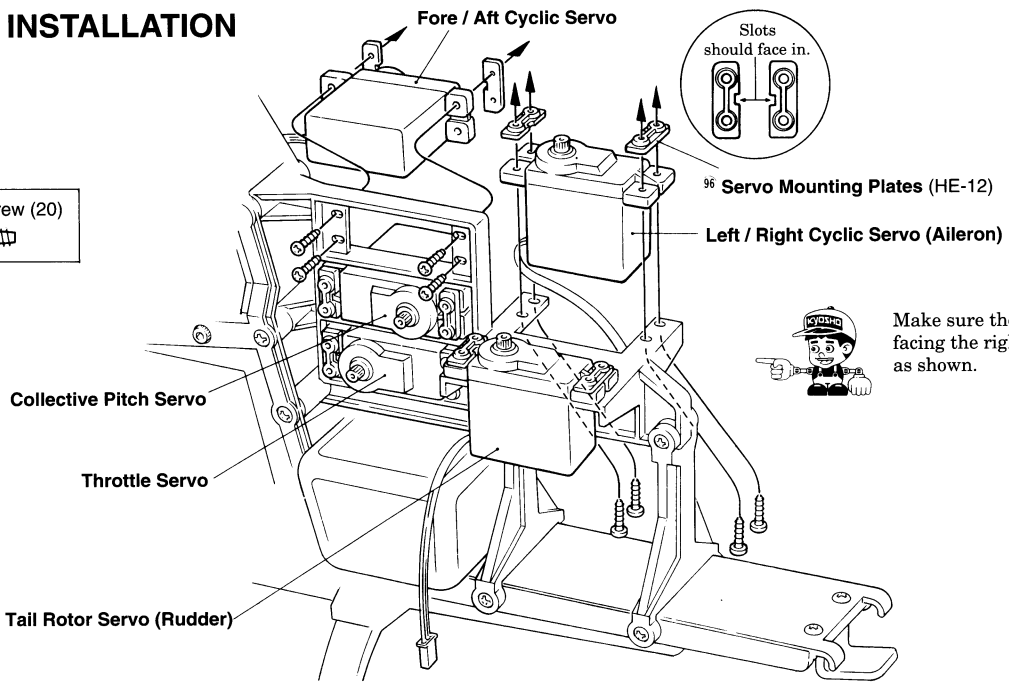


# 18 TAIL BOOM INSTALLATION



# 19 SERVO INSTALLATION

M2.6x15 S/T Screw (20)

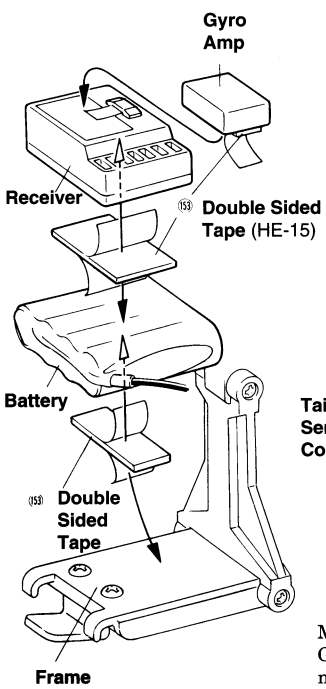
Make sure the servos are facing the right direction as shown.

# 20 INSTALLATION OF THE RECEIVER, BATTERY, AND GYRO

STEP 1 Cut the Double Sided Tape as indicated (use the ruler below).

Switch Mount	Battery	Receiver	Gyro	10mm
	Gyro Amp		Gyro	10mm
30mm	40mm	40mm	40mm	

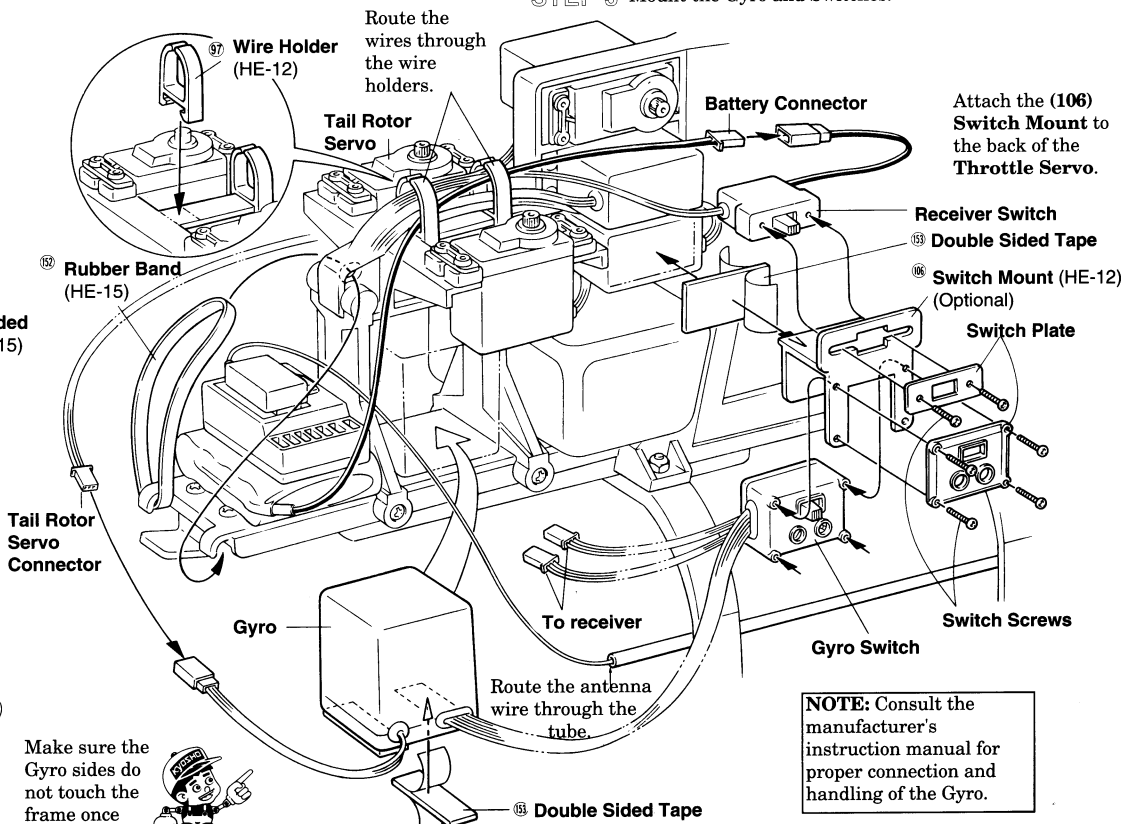
STEP 2 Install the receiver and battery.



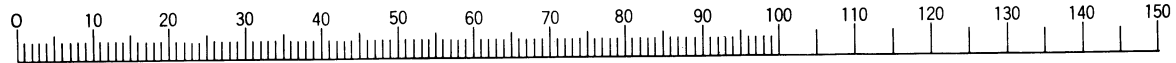
Make sure the Gyro sides do not touch the frame once installed.



STEP 3 Mount the Gyro and Switches.



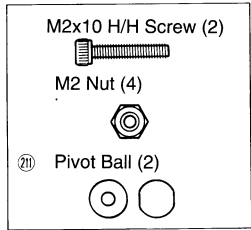
NOTE: Consult the manufacturer's instruction manual for proper connection and handling of the Gyro.



## 21 CYCLIC CONTROL ROD INSTALLATION

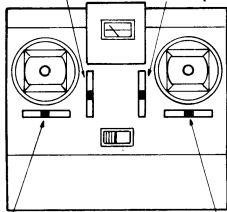
### STEP 1

Install the (10) Ball End on two of the (34) and (35) Rods.

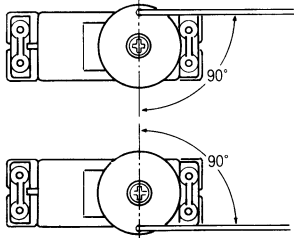


- Turn the radio on.
- With the trims centered and the servos in the neutral position, the servo horns should be set to 90°.

Throttle Trim      Fore / Aft Cyclic Trim (Elevator)



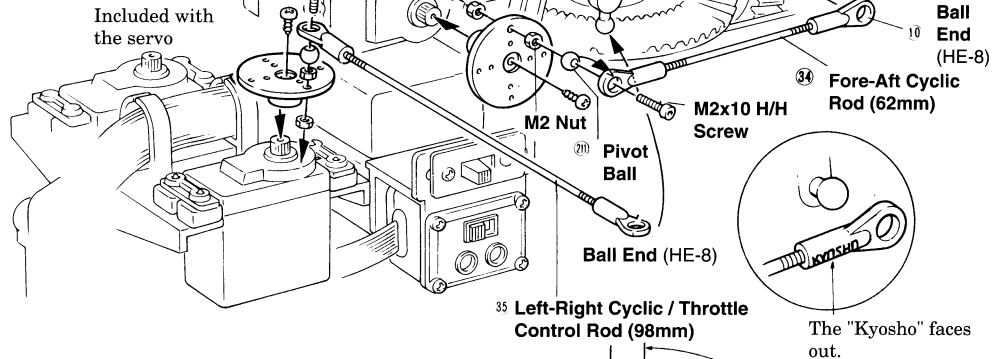
Tail Rotor Trim (Rudder)      Left / Right Cyclic Trim (Aileron)



- 34 Fore-Aft Cyclic Rod (62mm)
- 35 Left-Right Cyclic Control Rod (98mm)

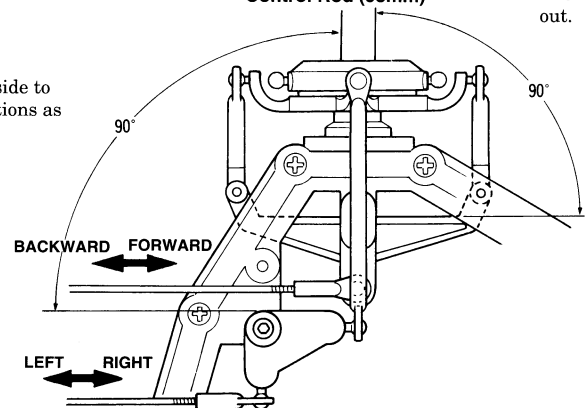
### STEP 2

Install the rods on the servos.



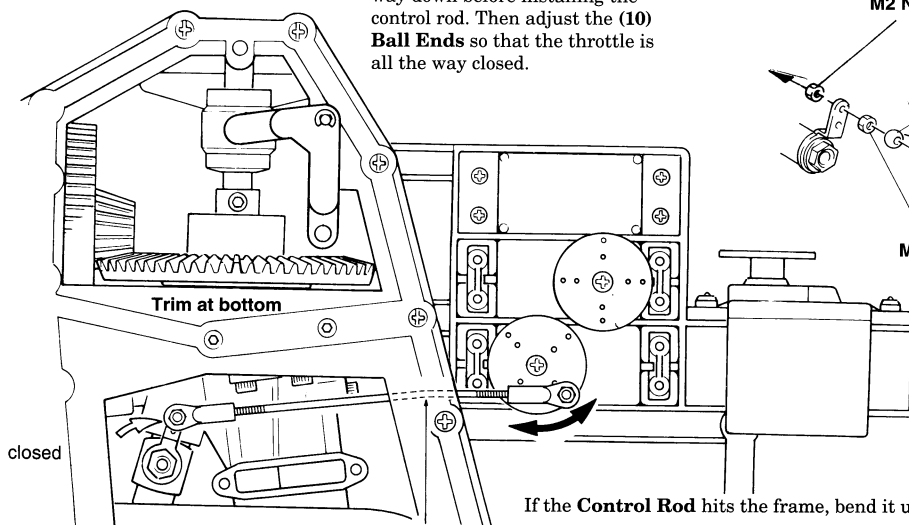
### STEP 3

Adjust the linkages so the swashplate is level in both side to side and front to back directions as shown.

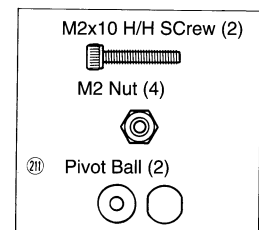


## 22 THROTTLE CONTROL ROD INSTALLATION

With the radio on, position the throttle stick and trim all the way down before installing the control rod. Then adjust the (10) Ball Ends so that the throttle is all the way closed.

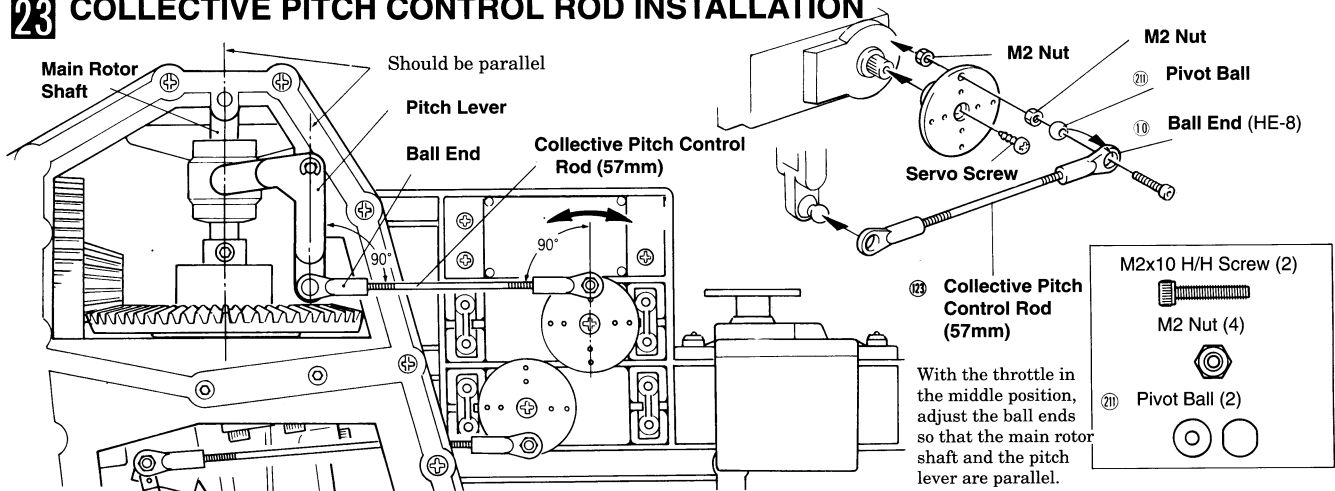


If the Control Rod hits the frame, bend it until it clears.

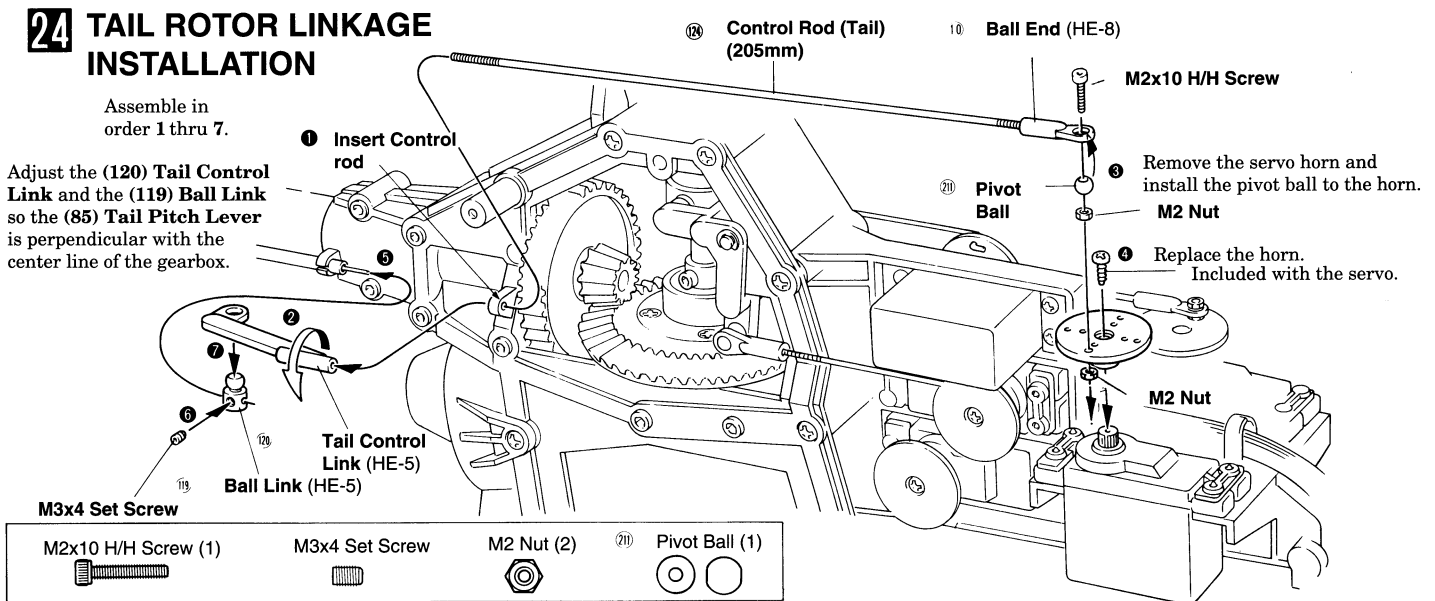


**Note:** Depending on servo size, an extra M2 Nut between the servo arm and the pivot ball will work as a "stand off." This may or may not be needed to give the control rod a straight path to the given control function.

## 23 COLLECTIVE PITCH CONTROL ROD INSTALLATION



## 24 TAIL ROTOR LINKAGE INSTALLATION



## 25 SETTING UP YOUR RADIO

The chart is a starting point for adjusting a Futaba FP-T7UHF Super Radio.

Radio Set-up Chart	1 Aileron	2 Elevator	3 Throttle	4 Rudder	5 Gyro	6 Pitch	7 Auxiliary
ATV	R/U	100	100	100	100	100	
	L/D	100	100	100	100	100	
D/R	R/U	70	70		100		
	L/D	100	100		80		
EXP (Pilot Preference)							
REV (For Super 7)	•Nor	•Nor	•Nor	•Nor	Nor	•Nor	Nor
	Rev	Rev	Rev	Rev	Rev	Rev	Rev

Hovering Pitch and Throttle Curve					
T-NR	(1)	(2)	(3)	(4)	(5)
(Hovering)	0%	25%	50%	75%	100%
P-NR	(1)	(2)	(3)	(4)	(5)
(Hovering)	0%	25%	50%	75%	100%

Gyro switch (on the gyro amp.) should also be in the reverse position.



## BODY PREPARATION

### 26 INSTALLATION OF BODY MOUNT

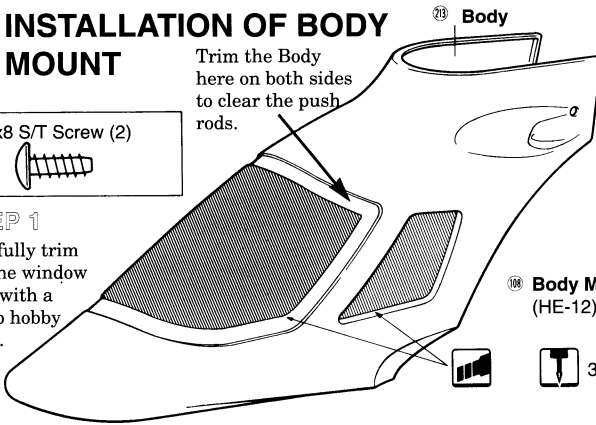
Trim the Body here on both sides to clear the push rods.

M3x8 S/T Screw (2)



#### STEP 1

Carefully trim out the window area with a sharp hobby knife.

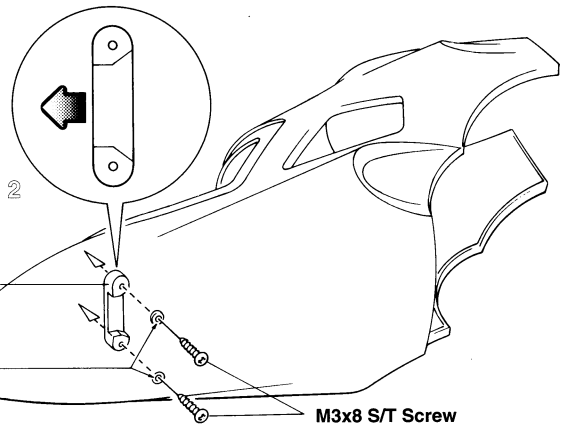


#### STEP 2

18 Body Mount (B) (HE-12)



3mm

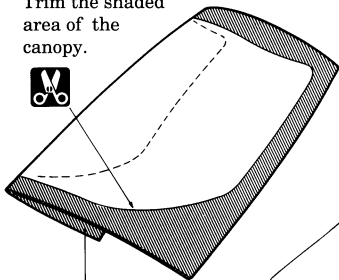


M3x8 S/T Screw

### 27 INSTALLATION OF THE CANOPY

#### STEP 1

Trim the shaded area of the canopy.



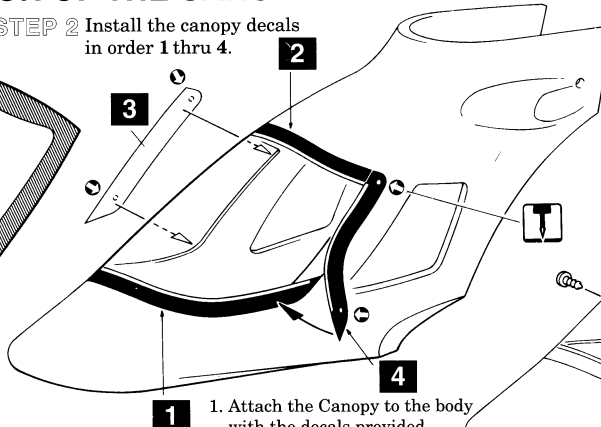
20 Canopy

M2x5 S/T Screw (4)



#### STEP 2

Install the canopy decals in order 1 thru 4.



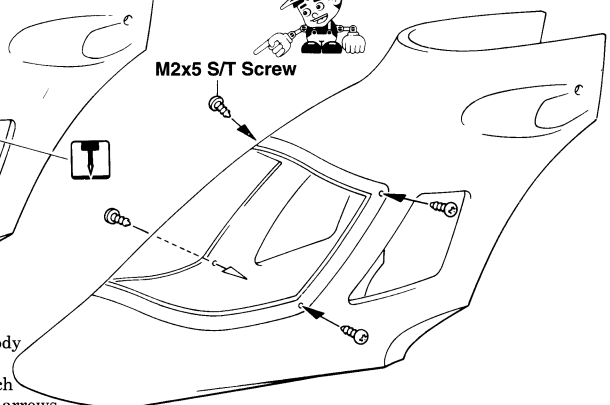
1. Attach the Canopy to the body with the decals provided.

2. Make two 1mm holes on each side where indicated by the arrows.

#### STEP 3

Install the screws. Do not over tighten or the plastic will strip out.

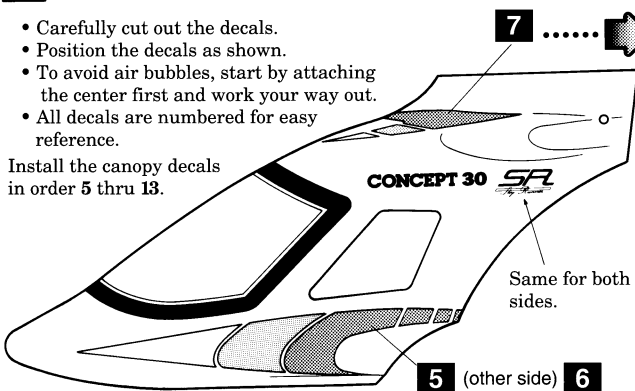
M2x5 S/T Screw



### 28 APPLYING THE DECALS

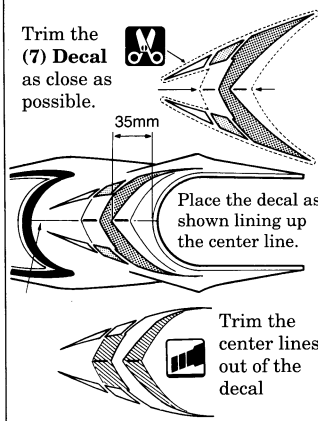
- Carefully cut out the decals.
- Position the decals as shown.
- To avoid air bubbles, start by attaching the center first and work your way out.
- All decals are numbered for easy reference.

Install the canopy decals in order 5 thru 13.



Same for both sides.

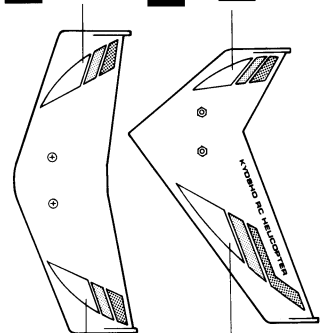
Trim the (7) Decal as close as possible.



Place the decal as shown lining up the center line.

Trim the center lines out of the decal

9 (other side) 8 10 (other side) 11

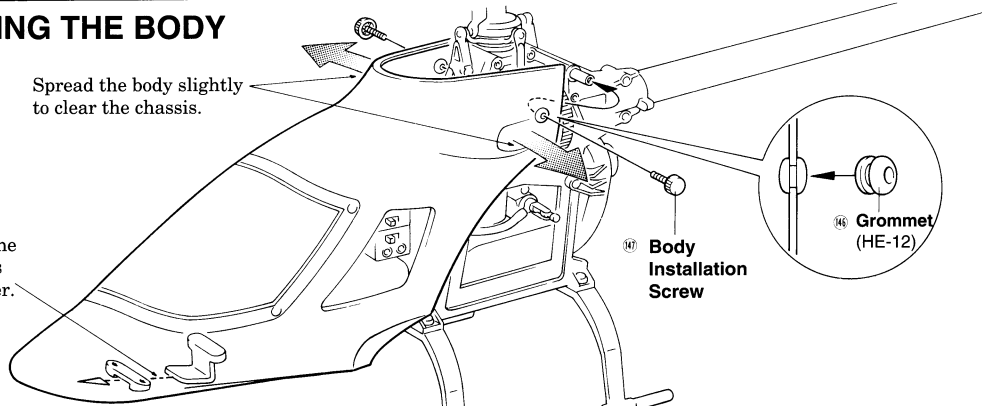


8 (other side) 9 13 (other side) 12

### 29 INSTALLING THE BODY

Spread the body slightly to clear the chassis.

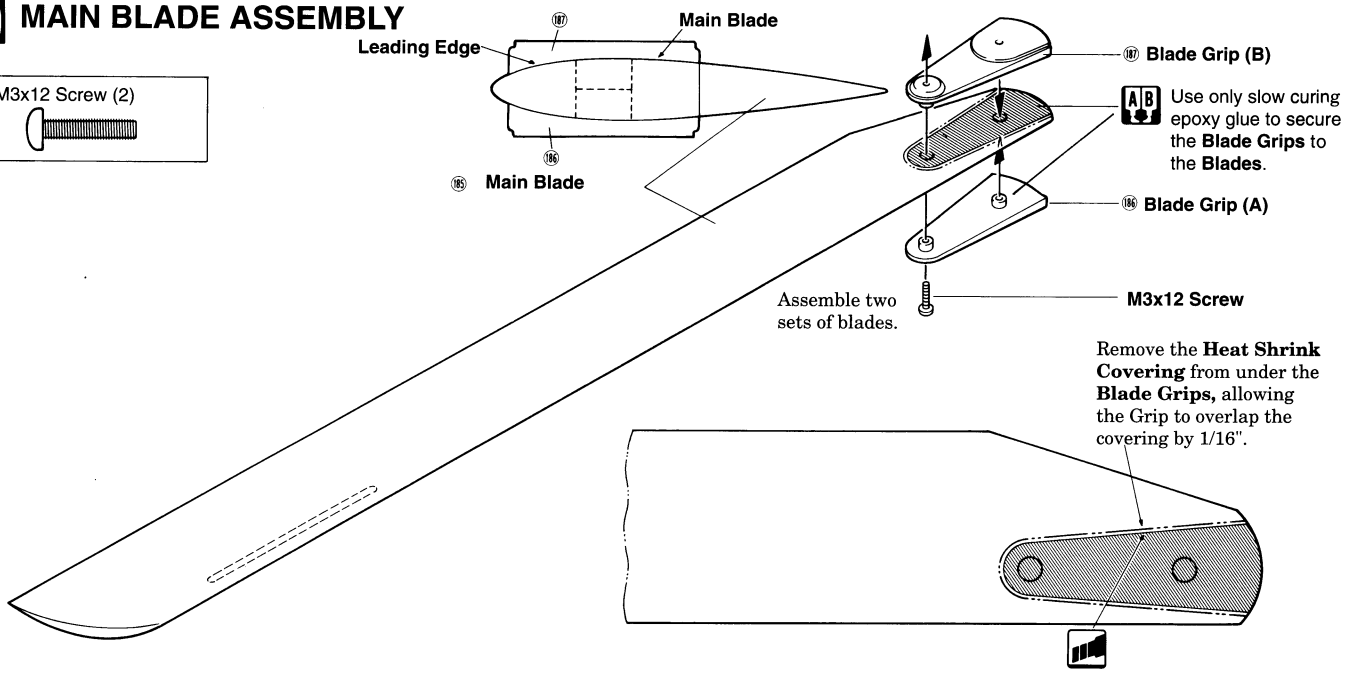
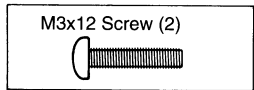
Make sure the body mounts slide together.



10 Body Installation Screw

16 Grommet (HE-12)

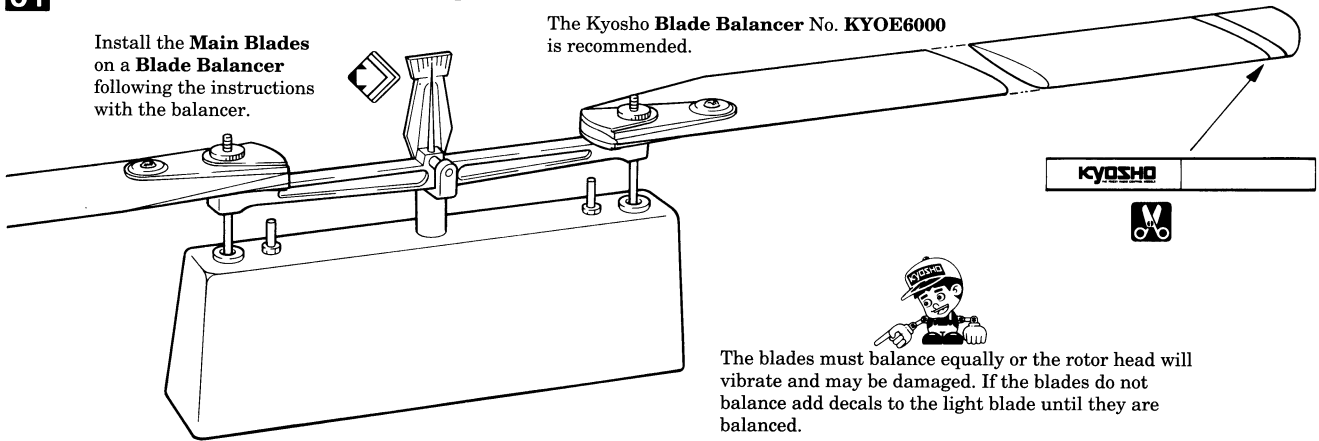
### 30 MAIN BLADE ASSEMBLY



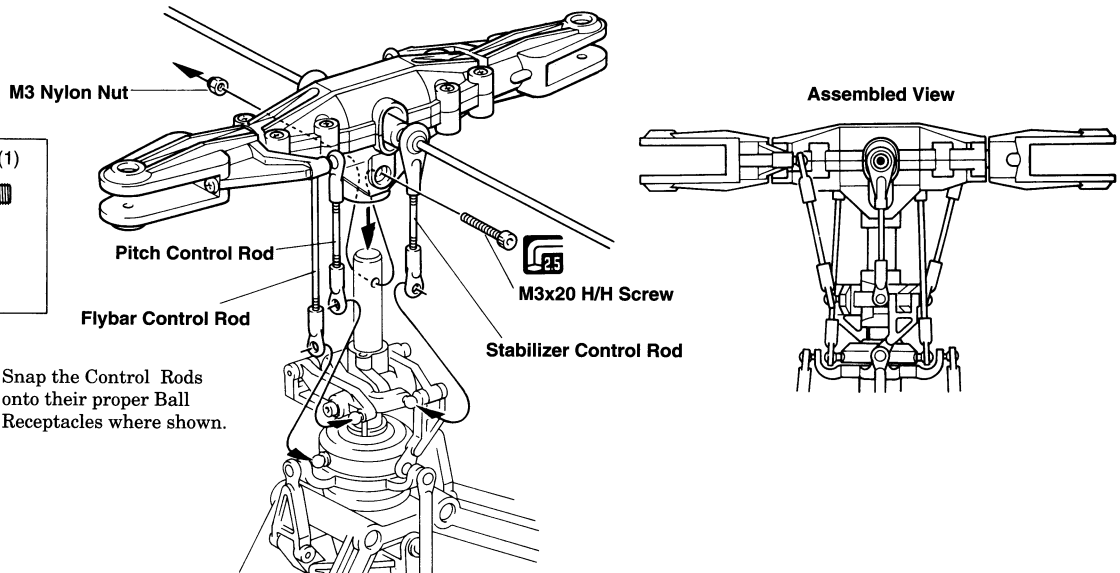
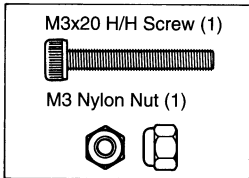
### 31 BALANCING THE BLADES

Install the **Main Blades** on a **Blade Balancer** following the instructions with the balancer.

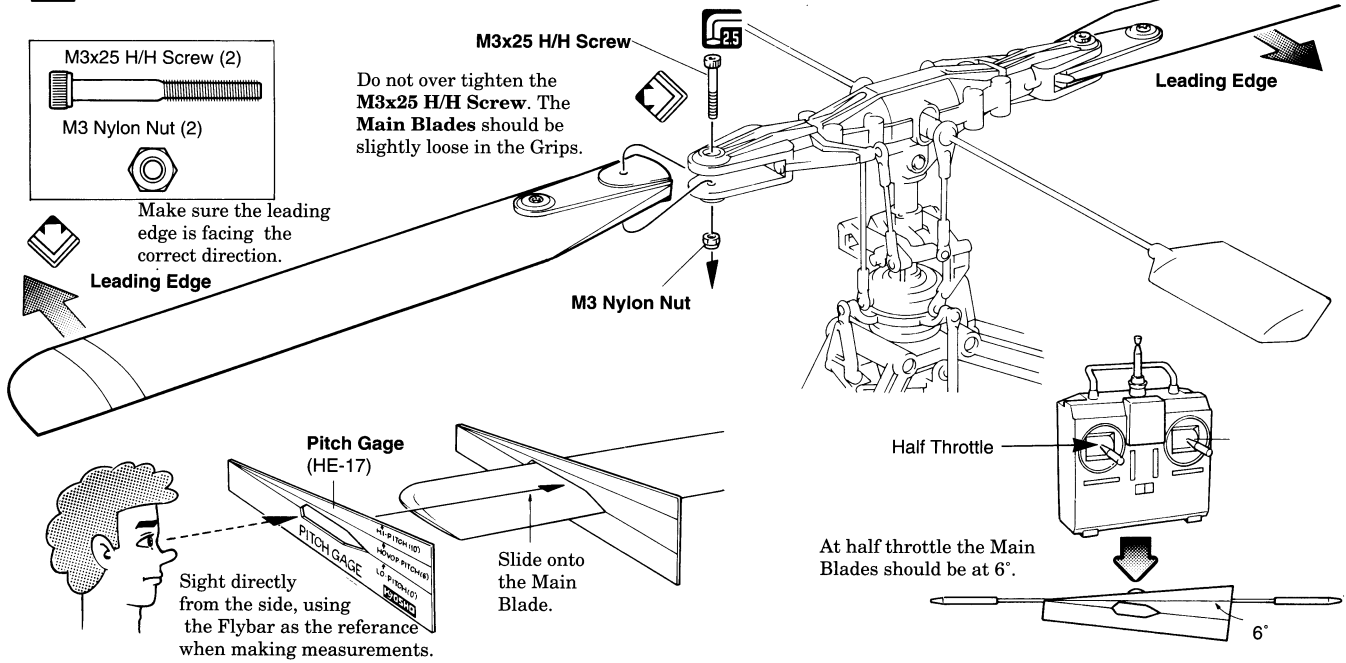
The **Kyosho Blade Balancer No. KYOE6000** is recommended.



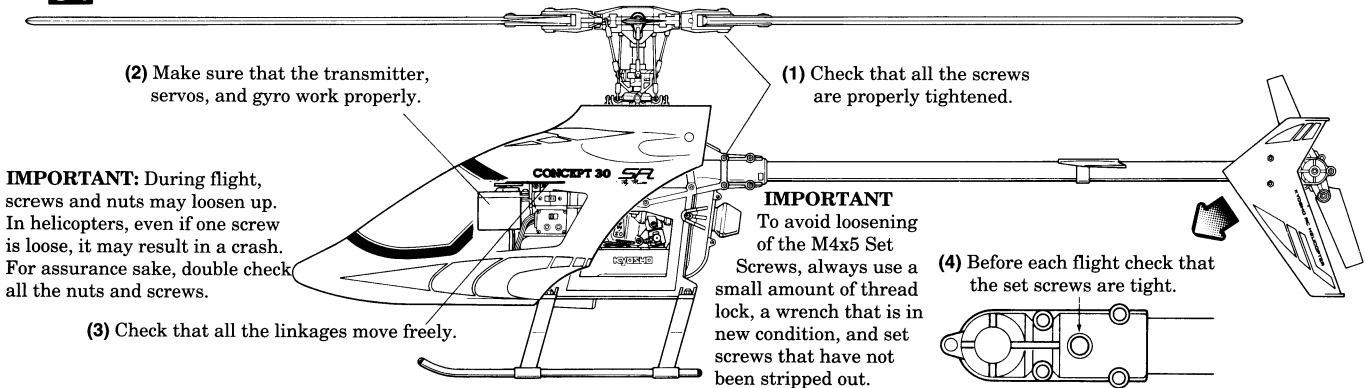
### 32 ROTOR HEAD INSTALLATION



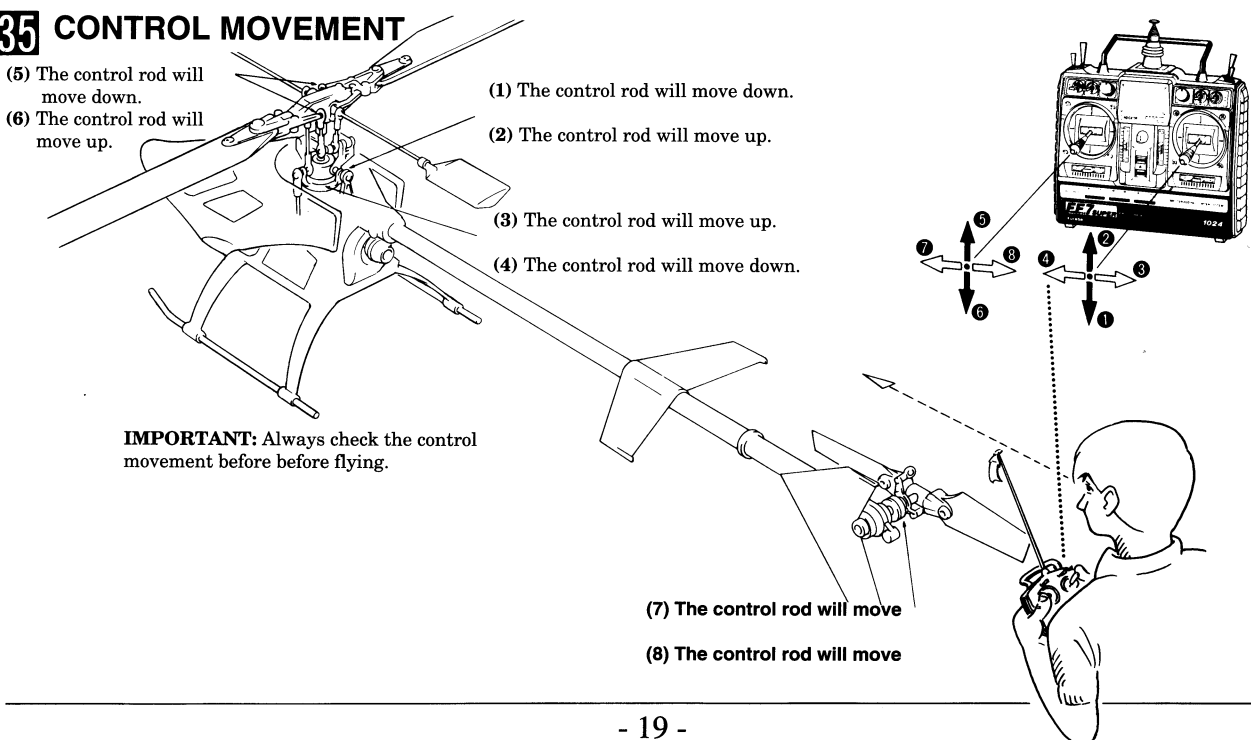
### 33 INSTALLATION OF MAIN ROTOR BLADE



### 34 FINAL ASSEMBLY INSPECTION

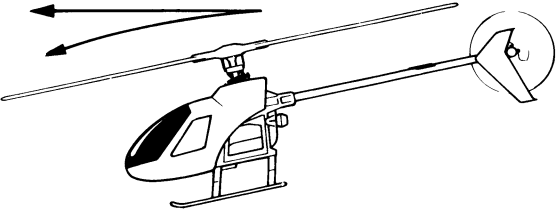
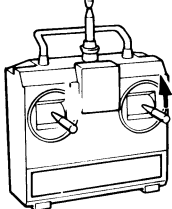
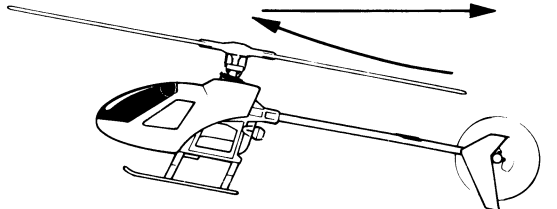
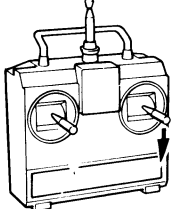
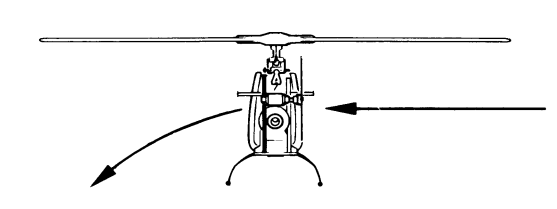
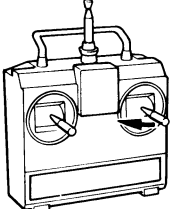
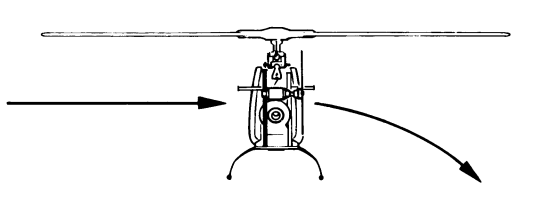
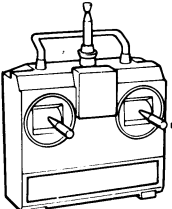
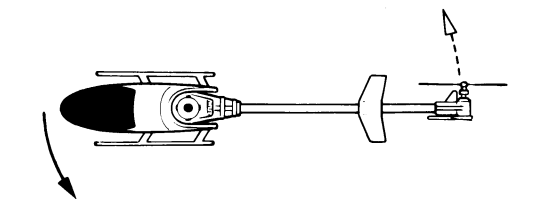
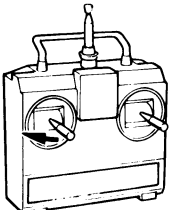
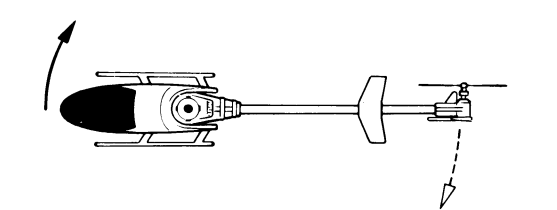
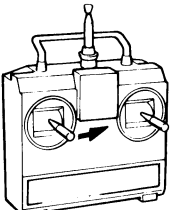
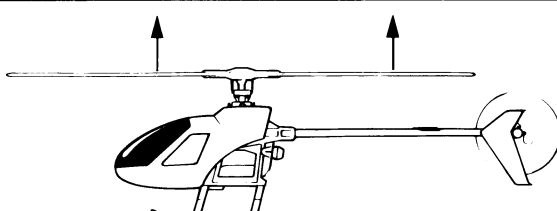
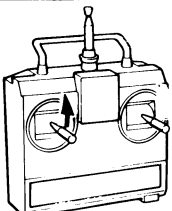
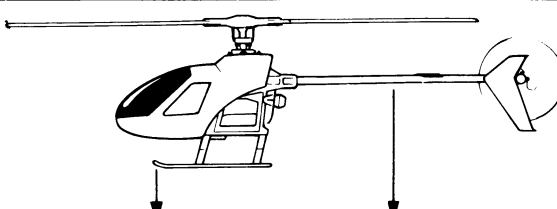
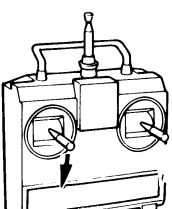


### 35 CONTROL MOVEMENT



## CONCEPT 30 CONTROL REACTIONS

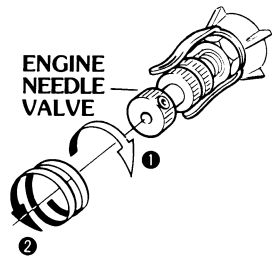
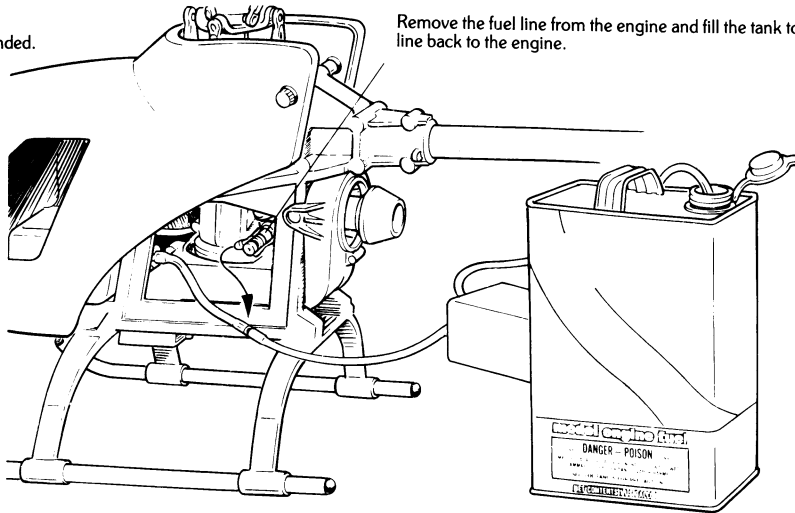
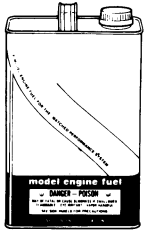
The Concept 30 will respond with these reactions to each signal from the radio.

	HELICOPTER RESPONSE	RADIO STICK POSITION	
<p><b>TILTS AND MOVES FORWARD</b></p>			<p><b>ELEVATOR STICK PUSHED FORWARD</b></p>
<p><b>TILTS AND MOVES BACKWARD</b></p>			<p><b>ELEVATOR STICK BACK</b></p>
<p><b>TILTS AND MOVES LEFT</b></p>			<p><b>AILERON TO THE LEFT</b></p>
<p><b>TILTS AND MOVES RIGHT</b></p>			<p><b>AILERON TO THE RIGHT</b></p>
<p><b>THE NOSE MOVES LEFT. COUNTERCLOCKWISE ROTATION.</b></p>			<p><b>RUDDER STICK TO THE LEFT</b></p>
<p><b>THE NOSE MOVES RIGHT. CLOCKWISE ROTATION.</b></p>			<p><b>RUDDER TO THE RIGHT</b></p>
<p><b>AS THE ENGINE'S RPMS INCREASE THE BLADE PITCH ALSO INCREASES AND THE HELICOPTER LIFTS UP.</b></p>			<p><b>ENGINE THROTTLE STICK HIGH</b></p>
<p><b>AS THE ENGINE'S RPMS DECREASE THE BLADE PITCH DECREASES AND THE HELICOPTER DESCENDS.</b></p>			<p><b>ENGINE THROTTLE STICK LOW</b></p>

## FUELING

A fuel of 10% or 15% nitro is recommended.

Remove the fuel line from the engine and fill the tank to the top. Reinstall the fuel line back to the engine.

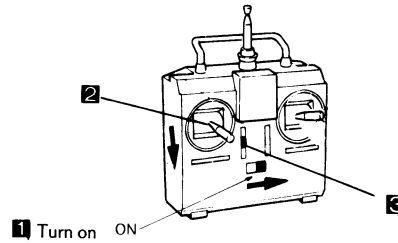


- 1 Close the needle valve all the way.
- 2 Then, reopen one and a half turns.

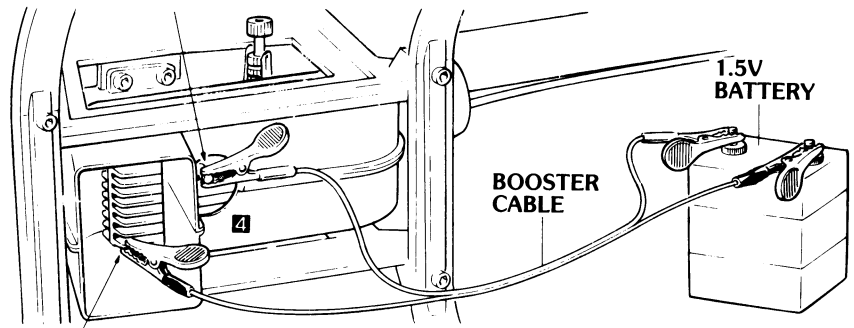
## STARTING THE ENGINE

This starting procedure is set up so that the main rotor head will not suddenly turn. Please follow it carefully.

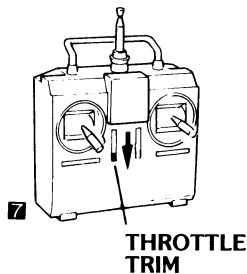
- 1 Turn on the radio system. (In sequence-transmitter, receiver and gyro).
- 2 Keep the engine control stick in the low position.
- 3 Set the engine control trim in the neutral position. Low stick and partial trim will allow the engine to start without engaging the clutch.



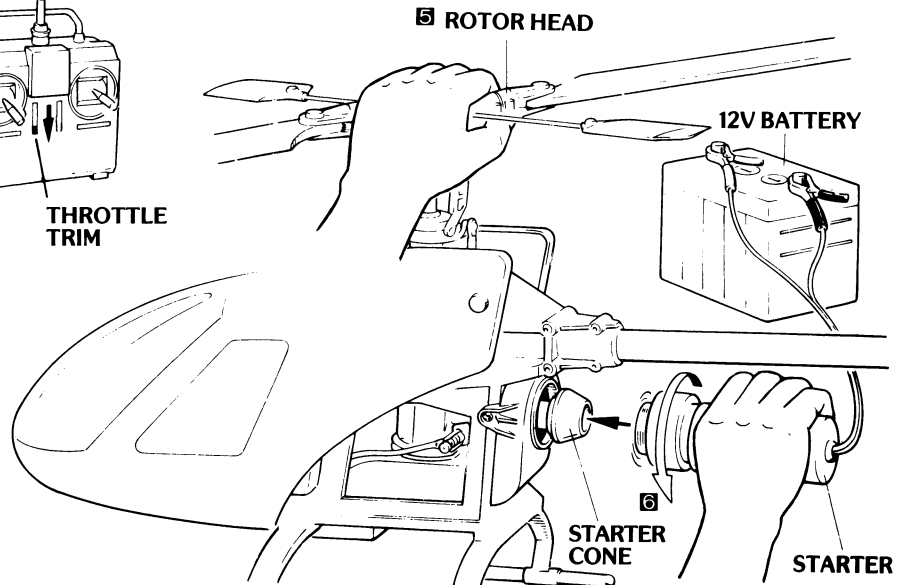
- 4 Connect a booster cable or glow plug clip to the glow plug and then to a 1.5V battery.



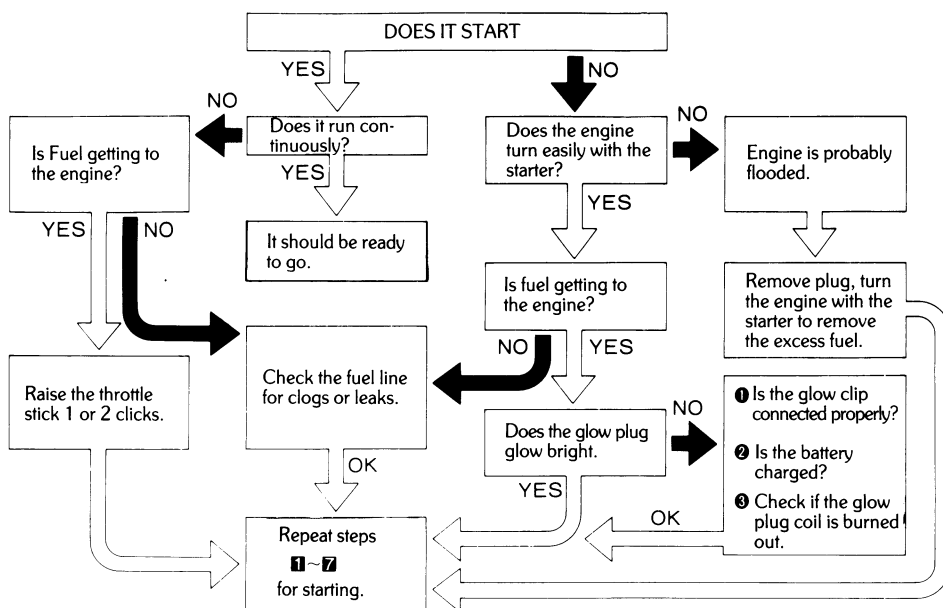
- 5 Hold the rotor head firmly in your left hand.
- 6 The starter should turn in the direction of the arrow. If not switch the battery leads. Press the starter against the starter cone and start the engine. Remove when it fires.



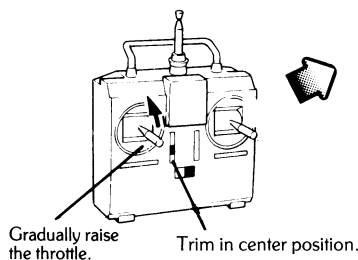
- 7 When the throttle trim is set low the engine should stop. (See step 22 if it doesn't, readjust the linkage). This is an important safety adjustment.



## ENGINE TROUBLESHOOTING DIAGRAM

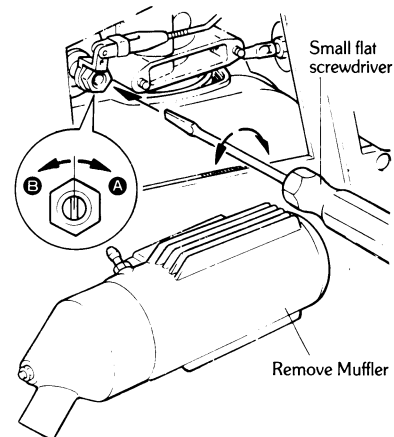


- If the engine does not start check the above chart.
- The engine should start if there is good fuel flow and the plug glows bright.



## IDLE SPEED ADJUSTMENT

- A** If the engine sputters and stops, the idle fuel mixture is to rich. Turn 1/8 turn toward **A** (below)
- B** If the engine stops abruptly with a dry sound, the idle fuel mixture is to lean. Turn 1/8 turn toward **B** (below)

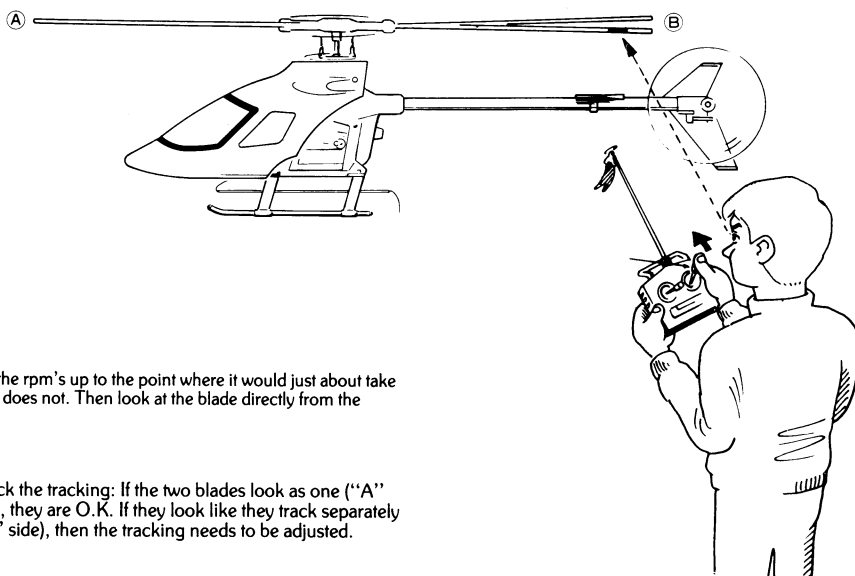


**Note:** Stop the engine when making adjustment.

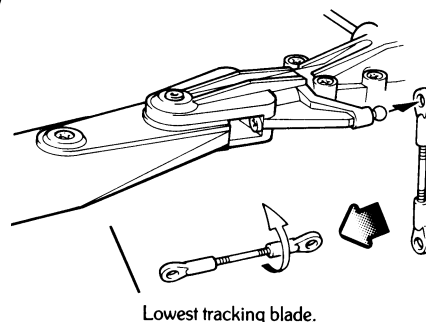
## FLYING STEP 1: CHECKING THE TRACKING

Adjust the tracking to line up the pitch angles of the main blades.

- Start the engine and set the helicopter on a smooth surface well away from any obstacles (preferably at a flying field).
- Stand no closer than 5 meters from the helicopter.



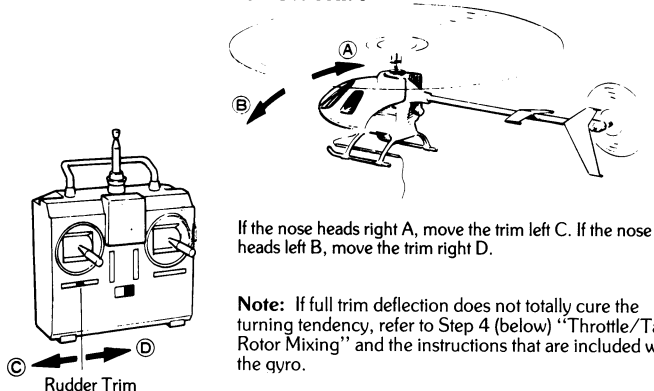
- 1** Raise the rpm's up to the point where it would just about take off but does not. Then look at the blade directly from the side.
- 2** Check the tracking: If the two blades look as one ("A" side), they are O.K. If they look like they track separately ("B" side), then the tracking needs to be adjusted.
- 3** To Adjust: Remove the pitch control rod of the low blade and shorten it one or two turns at a time. This increases the angle of attack of the low blade which will cause it to fly in the same plane as the high blade. Recheck the tracking again and repeat this step as necessary.



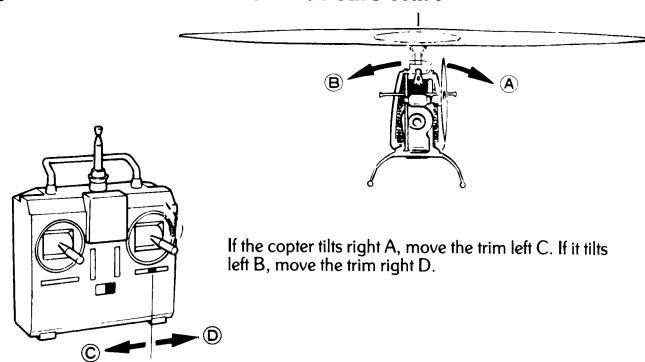
## FLYING STEP 2: ADJUSTING THE TRIM

As the engine speed increases and the helicopter is close to take off, you may notice a tendency for the helicopter to tip or rotate instead of wanting to lift straight up. If this happens, slow the copter and adjust the trim so it lifts straight.

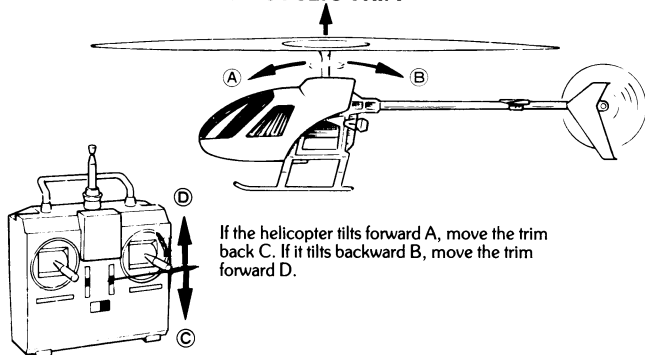
### 1 ADJUST THE TAIL ROTOR TRIM



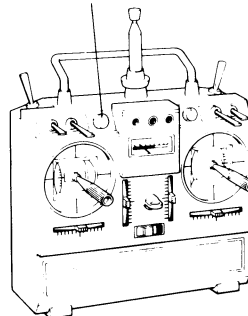
### 2 ADJUST THE LEFT/RIGHT CYCLIC TRIM



### 3 ADJUST THE FORE/AFT CYCLIC TRIM



### 4 ADJUST THE THROTTLE/TAIL ROTOR MIXING MIXING CONTROL

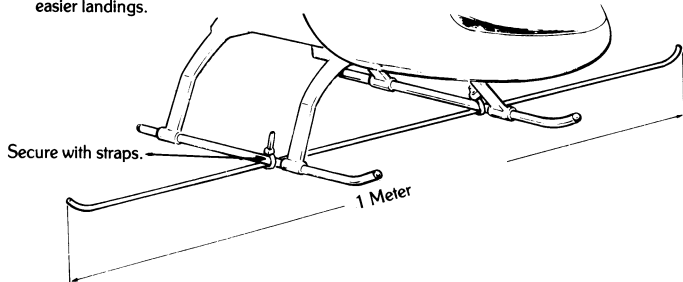


As the helicopter speeds up the relative torque on the helicopter chassis causes it to rotate. This rotation can be controlled with the throttle/tail rotor (rudder) mixing function. See the radio manufacturer's instructions for proper adjustment.

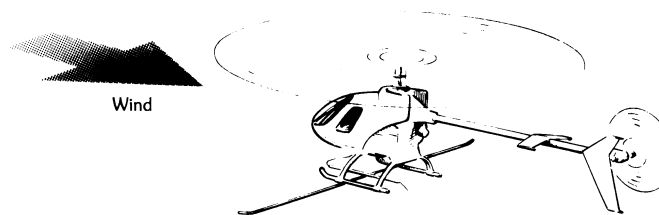
## FLYING STEP 3: BEFORE YOU BEGIN TO HOVER

The main fundamental flying technique of a helicopter is hovering. If you cannot hover you will be unable to fly or land. Therefore, spend plenty of time practicing this technique. Before flying observe the following:

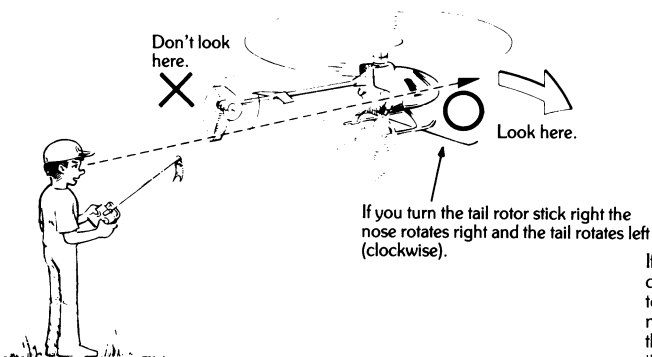
- 1 If you are a beginner, it is helpful to install a safety bar or training gear for easier landings.



- 2 When your practicing the hover always face the wind. This will keep the tail rotor more stable.

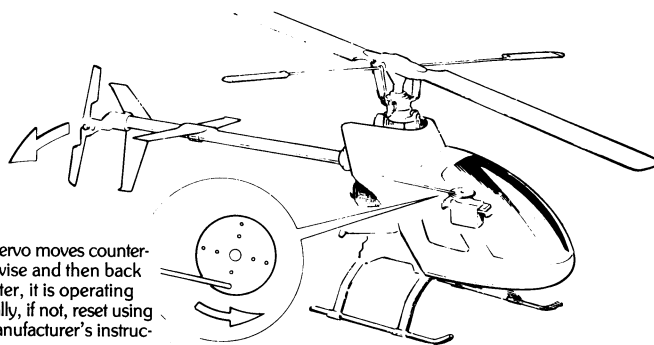


- 3 When flying, always look at the nose of the helicopter and not the tail because it is the nose that turns in the direction of your command. See below.



- 4 Check the Gyro Direction.

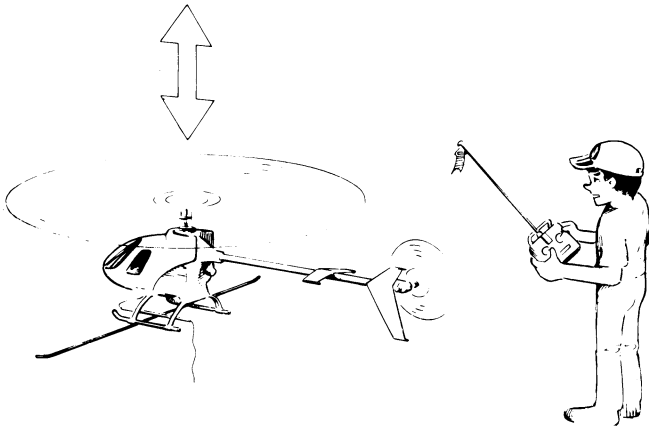
Turn on the transmitter, receiver and gyro. With your hand, quickly move the helicopter in the direction of the arrow and stop. At the same time watch the tail rotor servo.



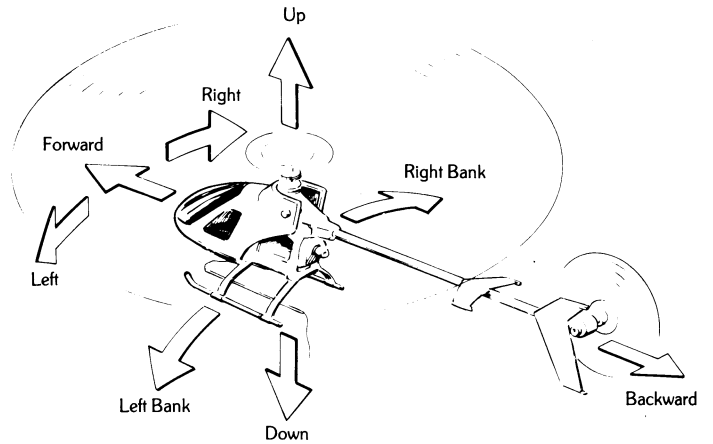
## FLYING STEP 4: PRACTICE HOVERING

**1** Stand about 5 meters from the helicopter and attempt a smooth lift off up to a height of 3" to 4" and then slow the engine, and carefully land the helicopter. Repeat this process until you can smoothly take off and land consistently. Then practice raising the helicopter higher.

**2** A hovering helicopter will never stay in one spot by itself. You must constantly "read" which direction the helicopter will want to drift and move the control sticks on the transmitter so that the helicopter will stay stationary. Try not to go to high until you can keep the helicopter stationary.



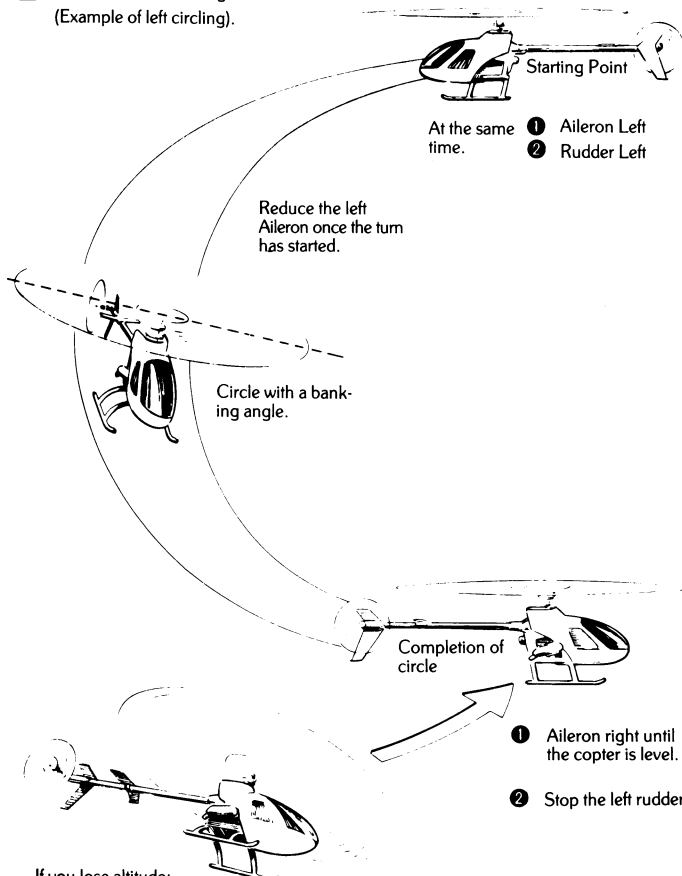
Once hovering is mastered you will have learned the most important and most common flight technique.



## FLYING STEP 5: FLYING A CIRCLE

After you have mastered hovering, you may try flying a circle around yourself slowly trying to keep the nose facing the direction of the flight. At slow speed you should be able to clearly see the flight attitude of the helicopter.

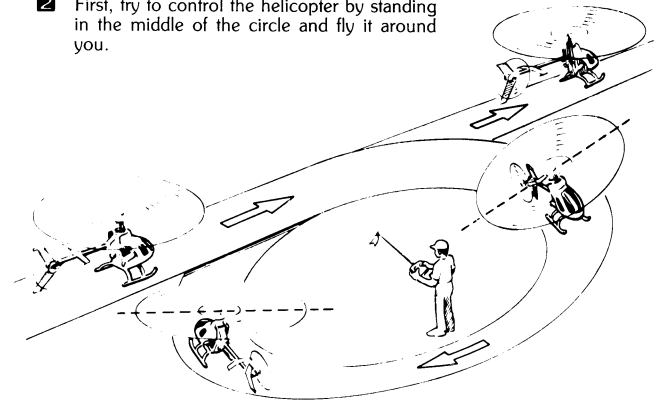
**1** Basic control of circling.  
(Example of left circling).



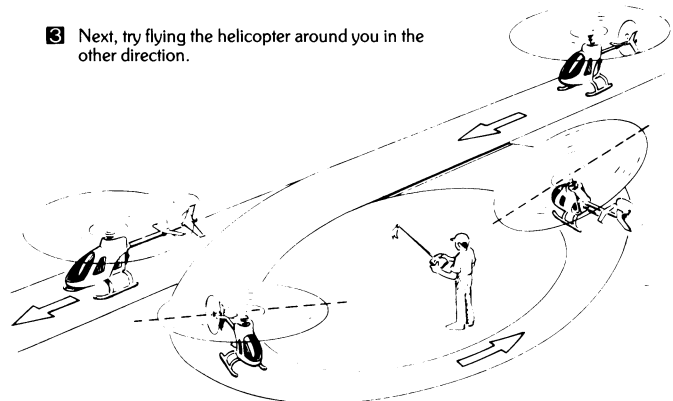
If you lose altitude:

- Slowly raise the engine speed enough to maintain height
- Give slight backward cyclic (elevator).
- Doing one or both of these should raise the height.

**2** First, try to control the helicopter by standing in the middle of the circle and fly it around you.



**3** Next, try flying the helicopter around you in the other direction.

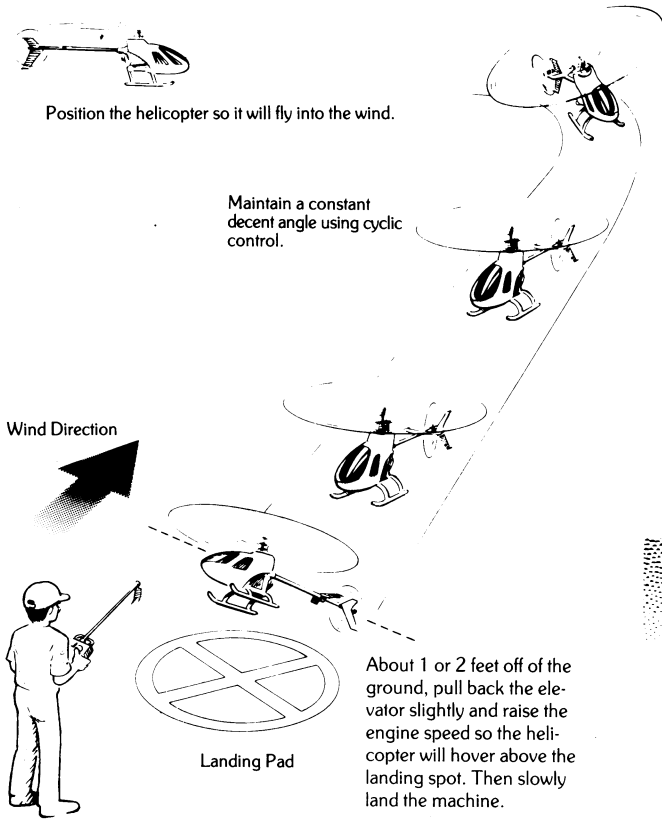




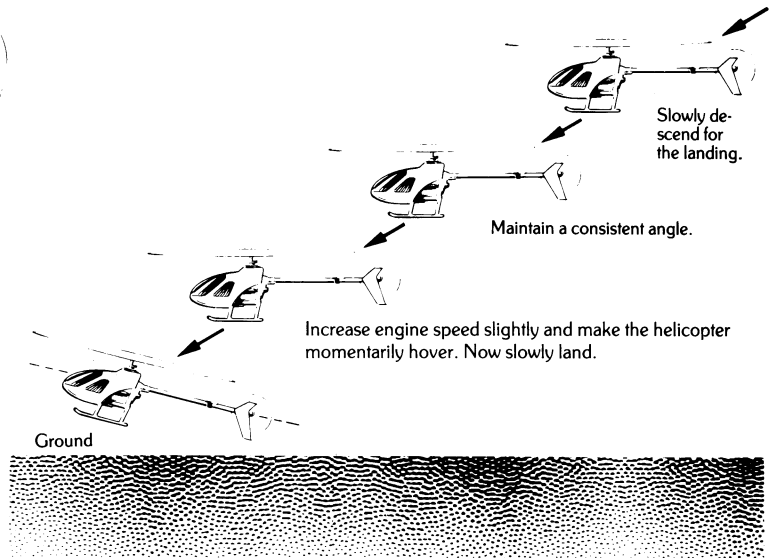
## FLYING STEP 6: LANDING

Landing is performed by flying into the wind and gradually guiding the helicopter towards the landing spot. Once you have started forward flight, the most common mistake is forgetting that you must return to hovering before landing. Landing requires more power as you near the ground.

### 1 Basic landing control.



### 2 Landing approach angle.



In order to perform a smooth decent, very delicate engine speed changes are necessary. Practice landings until you can do them well.

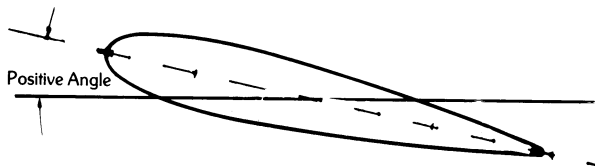
## FLYING STEP 7: AUTO ROTATION

The Concept 30 SR is equipped with an auto rotation system to minimize the damage of the helicopter in case the engine should stop during flight.

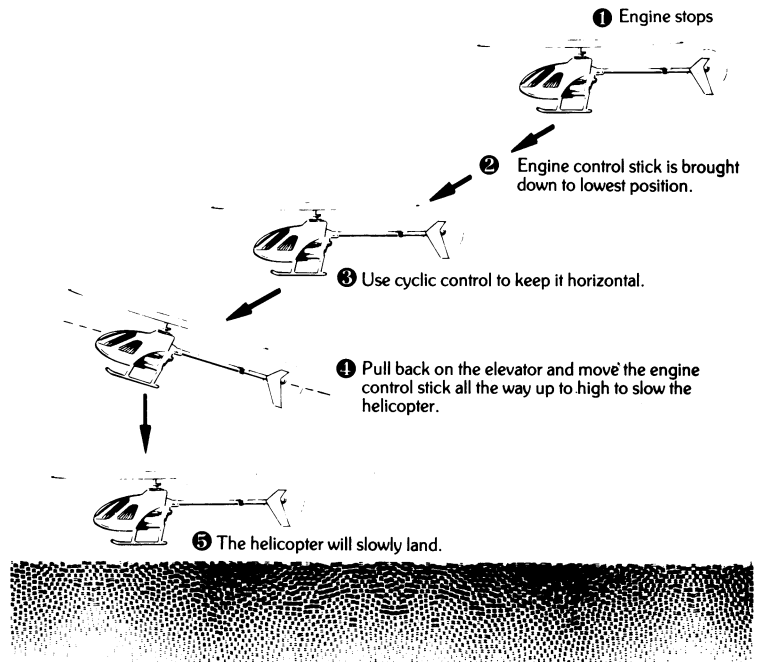
### AUTO ROTATION:

By making the main rotor pitch negative at low throttle, if the engine quits, the blades would continue to spin as the helicopter descends. Just before touching the ground the engine control is moved to the high position to slow the helicopter so it can land safely.

- For normal flights the pitch is positive.



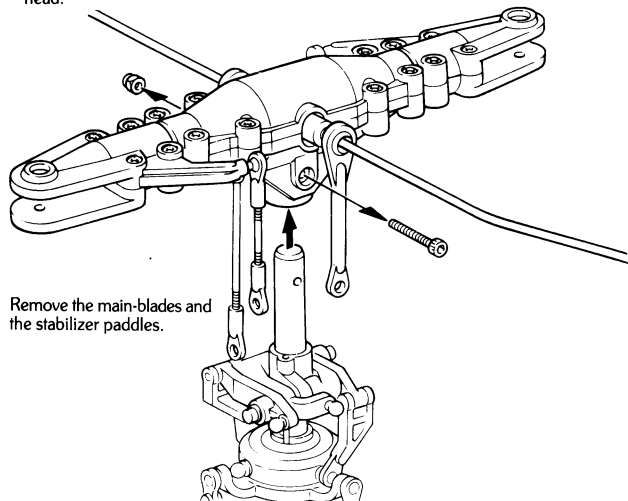
- For auto rotation capabilities set the low end pitch to  $-2\sim 3^\circ$  angle.



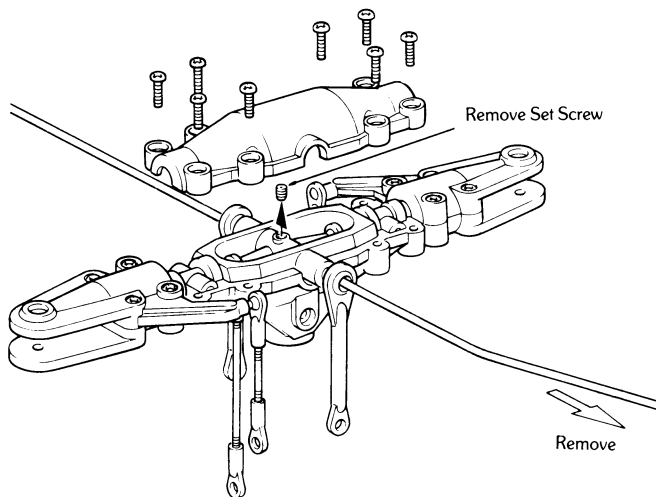
# PARTS REPLACEMENT

## REPLACEMENT OF THE STABILIZER BAR (FLYBAR)

**1** Disconnect the linkages and remove the rotor head.

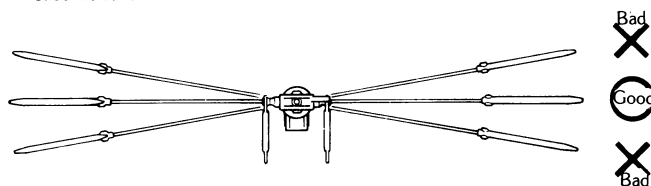
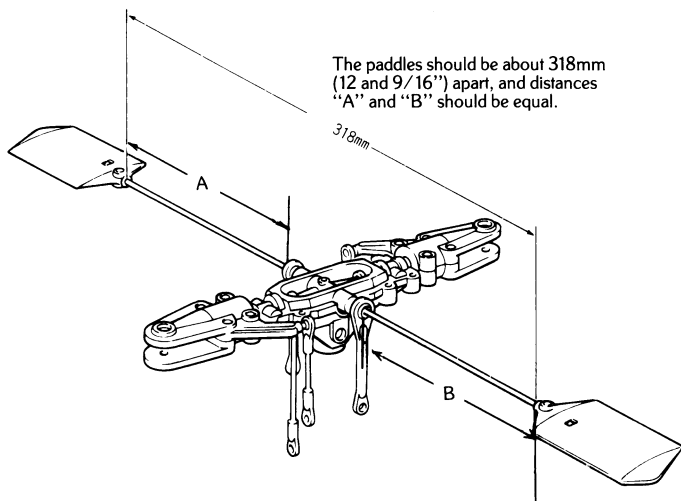


**2** First remove the top cover and then the set screw. Next, pull the bar out. If you have drilled a small hole in the top (Step 6) you will not have to remove it.

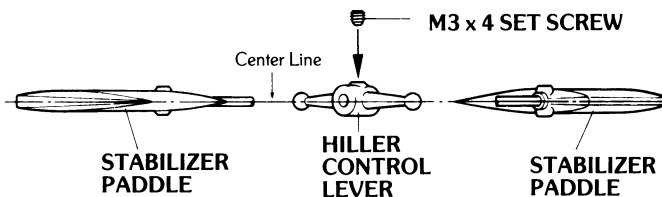


**3** Insert the new stabilizer bar and reinstall the stabilizer paddles.

**4** Slide the bar so that the head is balanced.



Tighten the Set Screw

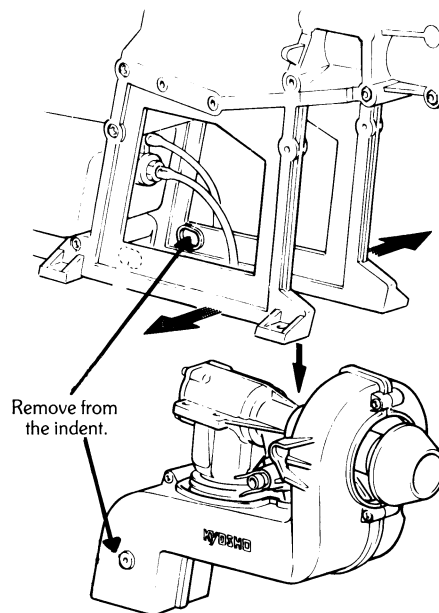
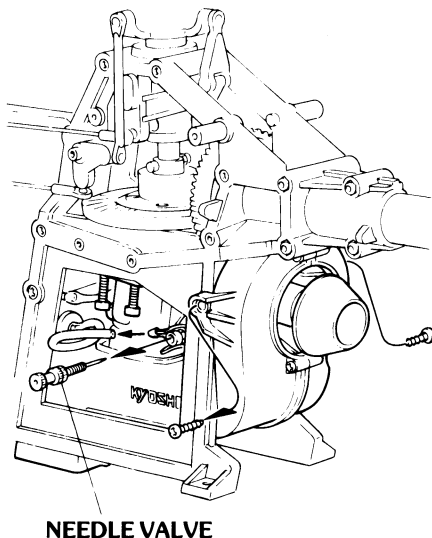
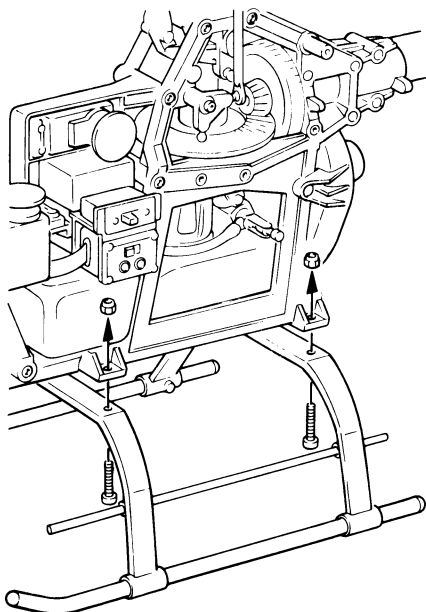


## REMOVING THE ENGINE (INSTALL IN THE REVERSE ORDER)

**1** Remove the landing skids.

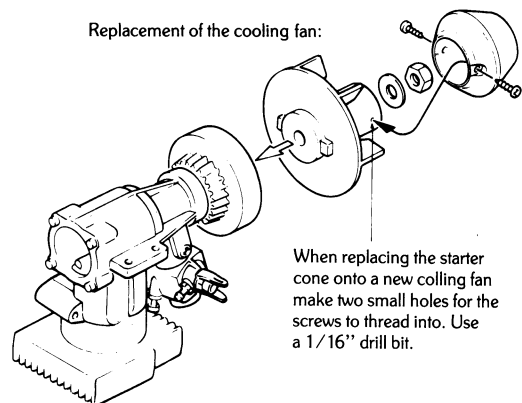
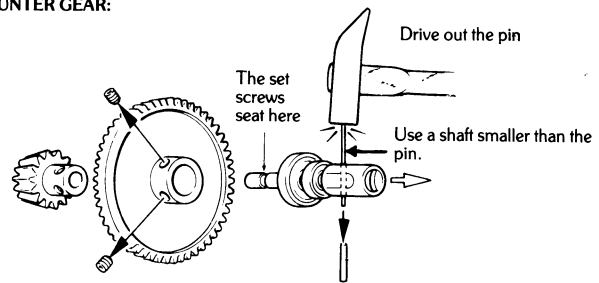
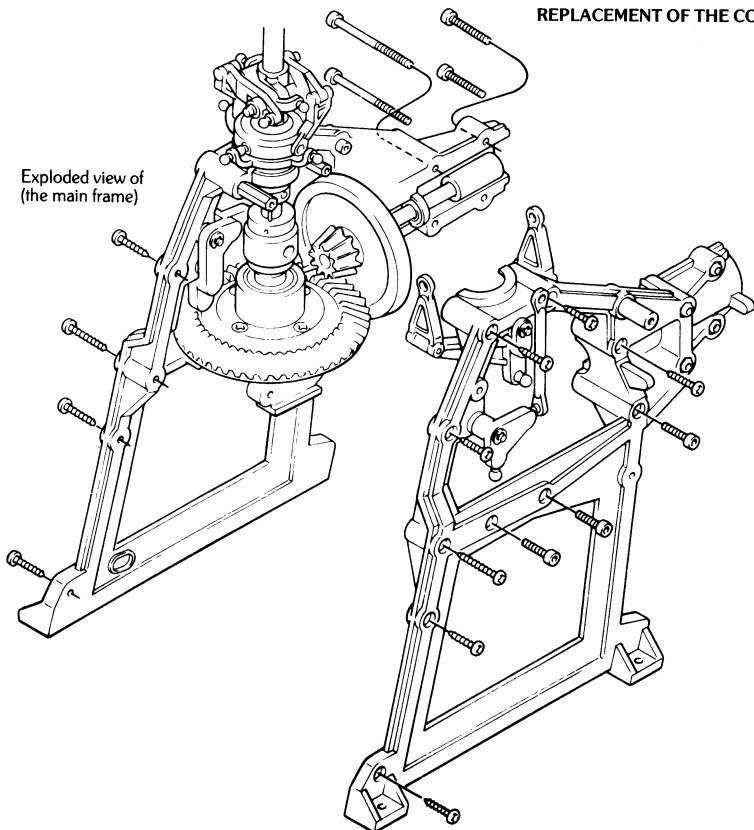
**2** Next, remove the muffler, fuel line, linkage rod, and the needle valve. Then remove the engine mounting and shroud screws.

**3** Spread the lower frame outward, lower the engine together with the fan shroud.



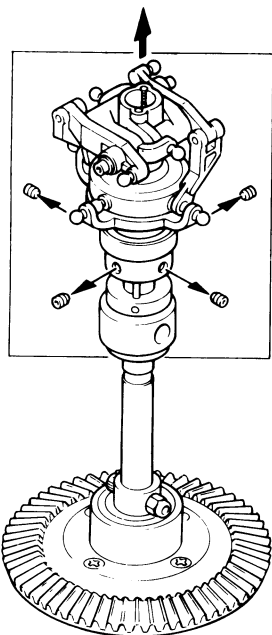
# PARTS REPLACEMENT (CONT'D)

## REPLACEMENT OF THE COUNTER GEAR:

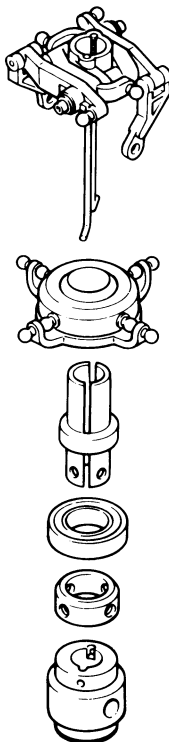


## REMOVING THE MAIN SHAFT

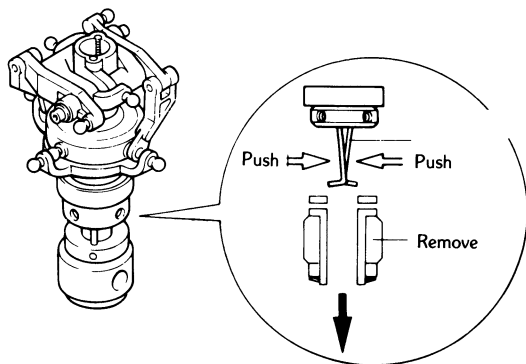
1 Loosen the 4 set screws two turns and pull the assembly off the mast.



2 Disassembled Parts

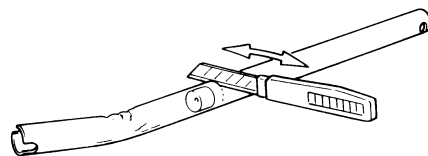


2 Push in the wire rods and remove the parts as shown.

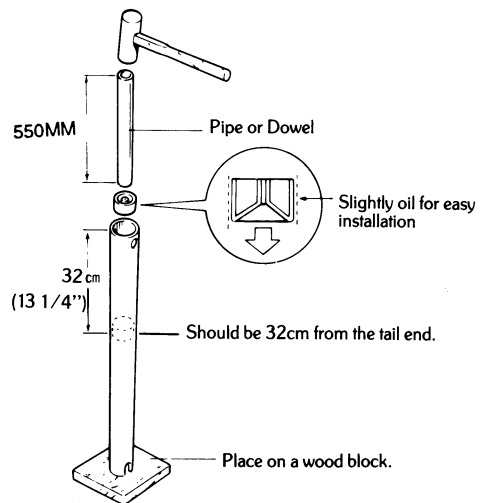


## REPLACEMENT OF THE DRIVE SHAFT GUIDE.

1 Cut the boom on both sides of the guide and then carefully tap it out with a hammer and dowel rod (or pipe).



2 To insert, drive the guide in its proper direction using a short pipe or dowel. Two or three guides is best.



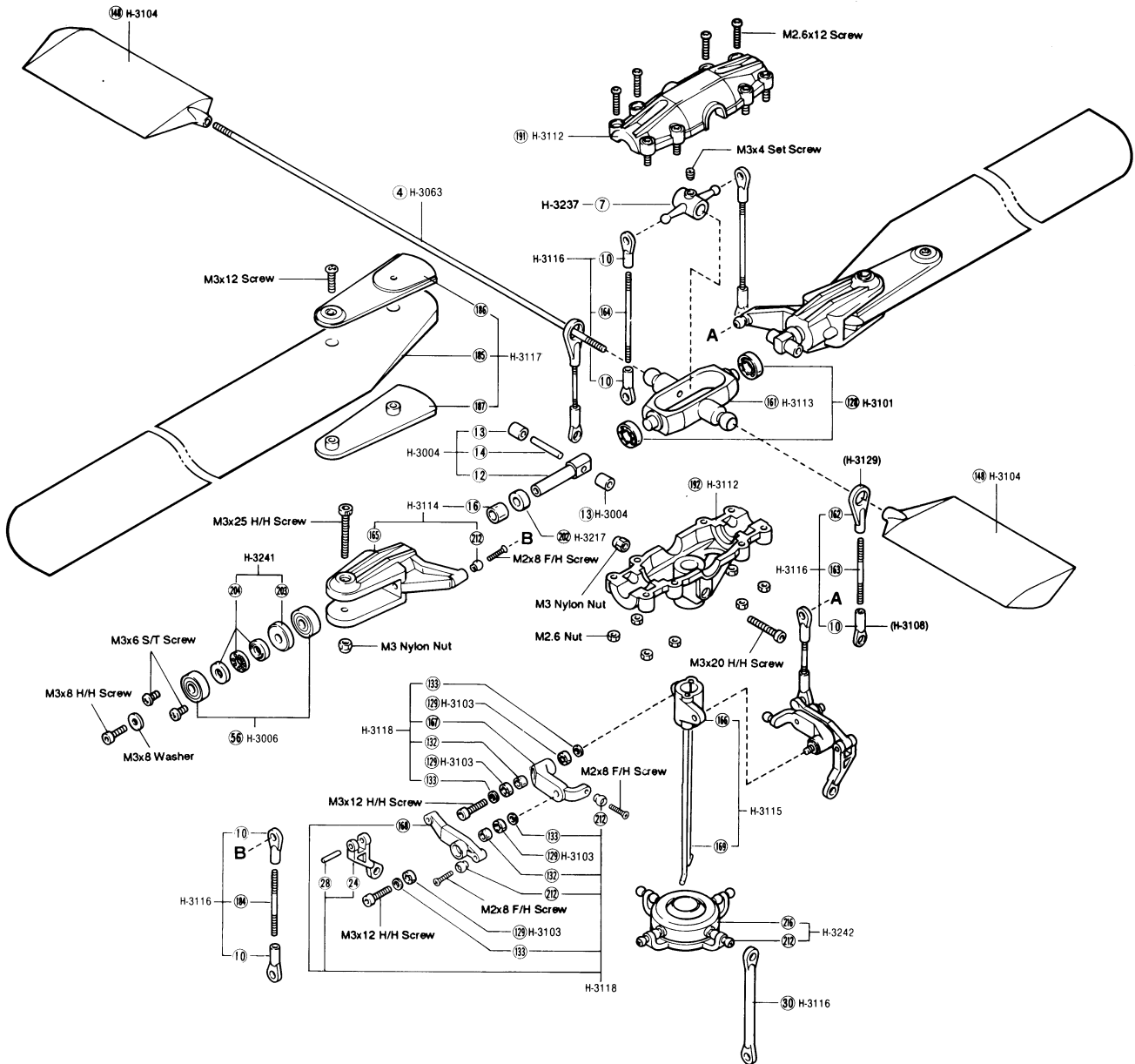
## CONCEPT 30 SR PARTS LIST

KEY#	DESCRIPTION	Qty.	KEY #	DESCRIPTION	Qty.	KEY #	DESCRIPTION	Qty.
4.	Flybar .....	1	79.	2mmx12mm Gear Pin .....	1	151.	Clutch Adapter (ENYA).....	1
6.	Control Lever Bushing .....	1	80.	Tail Gearbox (R) .....	1	152.	Rubber Band .....	1
7.	Hiller Control Lever.....	1	81.	Tail Gearbox (L).....	1	153.	Double Sided Tape.....	1
10.	Ball End (Medium).....	18	82.	Tail Output Shaft .....	1	154.	Washer (ENYA).....	1
12.	Feathering Shaft.....	2	83.	5mmx10mm Bearing .....	2	161.	Stabilizer See-Saw .....	1
13.	Flapping Hinge Bushing.....	4	84.	Tail Shaft Thrust Collar.....	1	162.	Ball End (Large) .....	2
14.	Flapping Pin (3x18mm).....	2	85.	Tail Pitch Lever .....	1	163.	Stabilizer Control Rod .....	2
16.	Bearing Spacer.....	4	86.	Tail Pitch Ring .....	1	164.	Flybar Control Rod.....	2
18.	5mmx16mm Bearing.....	1	87.	Tail Pitch Ring Pin .....	1	165.	Main Rotor Grip.....	2
24.	Cyclic Lever Link .....	2	88.	6mmx10mm Bearing .....	2	166.	Mixing Base .....	1
27.	Lever Bushing (A) .....	1	91.	Slide Bushing .....	1	167.	Mixing Lever .....	2
28.	Cyclic Pin (2x10mm) .....	2	94.	Body Mount .....	2	168.	Cyclic Lever.....	2
30.	Aileron Link Rod .....	1	95.	Sub Frame .....	1	169.	Pitch Rod .....	2
31.	Elevator Link Rod .....	2	96.	Servo Mounting Plates .....	10	170.	Aileron Lever .....	1
32.	Elevator Lever .....	1	97.	Wire Holder.....	2	171.	Mast.....	1
33.	Lever Pin.....	2	98.	Frame Retainer.....	2	172.	Pitch Slider .....	1
34.	Fore / Aft Cyclic Control Rod .....	1	99.	Front Frame .....	1	173.	Pitch Slider Link.....	1
35.	Left / Right Cyclic Control Rod .....	1	101.	Skid .....	2	174.	Stopper Ring .....	1
37.	Lever Bushing (B).....	1	102.	Skid Cap.....	4	175.	Hard Bevel Pinion .....	1
39.	Pitch Rod Guide .....	1	103.	Antenna Tube .....	1	176.	Tail Drive Shaft.....	1
40.	12mmx21mm Bearing.....	1	106.	Switch Mount.....	1	177.	Tail Boom.....	1
41.	Mast Stopper .....	1	107.	Body Mount (A) .....	1	178.	Tail Pitch Plate .....	1
46.	One-way Shaft .....	1	108.	Body Mount (B) .....	1	179.	Tail Pitch Ball End.....	2
47.	Main Gear.....	1	109.	Tank.....	1	180.	2x8mm Pin .....	2
48.	One-way Housing.....	1	110.	Tank Weight.....	1	181.	Brace .....	1
49.	8mmx16mm Bearing.....	1	111.	Tank Adapter.....	1	182.	Tail Control Guide .....	1
50.	Engine Mount .....	1	112.	Tank Cap.....	1	183.	Tail Control Rod .....	1
51.	Main Frame (L) .....	1	113.	Seal Washer.....	1	184.	Pitch Control Rod.....	2
52.	Main Frame (R) .....	1	114.	Seal Nut.....	1	185.	Main Blade .....	2
54.	Counter Gear .....	1	115.	Silicone Tube.....	1	186.	Blade Grip (A).....	2
55.	Secondary Shaft.....	1	116.	Silicone Tube (L) .....	1	187.	Blade Grip (B).....	2
56.	5mmx13mm Bearing.....	5	119.	Ball Link .....	1	188.	Pitch Lever.....	1
57.	Tail Drive Coupling .....	1	120.	Tail Control Link.....	1	189.	Decal .....	1
58.	2x10mm Drive Pin .....	1	121.	Control Rod (Tail).....	1	191.	Rotor Head (B).....	1
59.	2x14mm Link Pin.....	2	122.	Control Rod (Throttle).....	1	192.	Rotor Head (A).....	1
60.	Threaded Insert (S) .....	3	123.	Control Rod (Pitch) .....	1	202.	Flapper Damper.....	2
61.	Threaded Insert (L).....	1	126.	Clevis .....	1	203.	Metal Spacer .....	2
62.	Starter Cone .....	1	128.	6mmx12mm Bearing.....	4	204.	Thrust Bearing .....	2
63.	Cooling Fan .....	1	129.	3mmx16mm Bearing.....	8	208.	Clutch Bell .....	1
67.	Fan Shroud (R) .....	1	132.	Bearing Collar .....	4	209.	Clutch Lining .....	1
68.	Fan Shroud (L).....	1	133.	Bearing Washer.....	8	210.	Tail Blade .....	2
226.	Shaft Guide .....	1	137.	10mmx15mm Bearing.....	2	211.	Pivot Ball.....	6
72.	Stabilizer Fin.....	1	140.	Tail Center Hub .....	1	212.	Pivot Ball.....	17
73.	Bracket.....	1	141.	M3x14 Threaded Rod.....	2	213.	Body .....	1
74.	Vertical Fin.....	1	142.	Thrust Bearing .....	2	214.	Canopy .....	1
75.	Tail Drive Joint .....	1	143.	Tail Grip (B) .....	2	216.	Swash Plate Assembly .....	1
76.	8mmx14mm Bearing.....	2	144.	Tail Grip (A) .....	2	225.	Guide Bracket.....	2
77.	Tail Input Gear .....	1	146.	Grommet .....	2	226.	12mmx18mm Bearing.....	2
78.	Tail Output Gear .....	1	147.	Body Installation Screw .....	2	227.	Clutch.....	1
			148.	Stabilizer Paddle .....	2			
			150.	Mast Stopper Ring .....	1			

# PURCHASING PARTS FOR YOUR CONCEPT 30SR

You can purchase replacement and optional parts for your kit. The parts are usually not available singularly, but we offer these parts in convenient parts "packs" which can be purchased separately. To figure out which parts pack you need, find the key number for that part within the

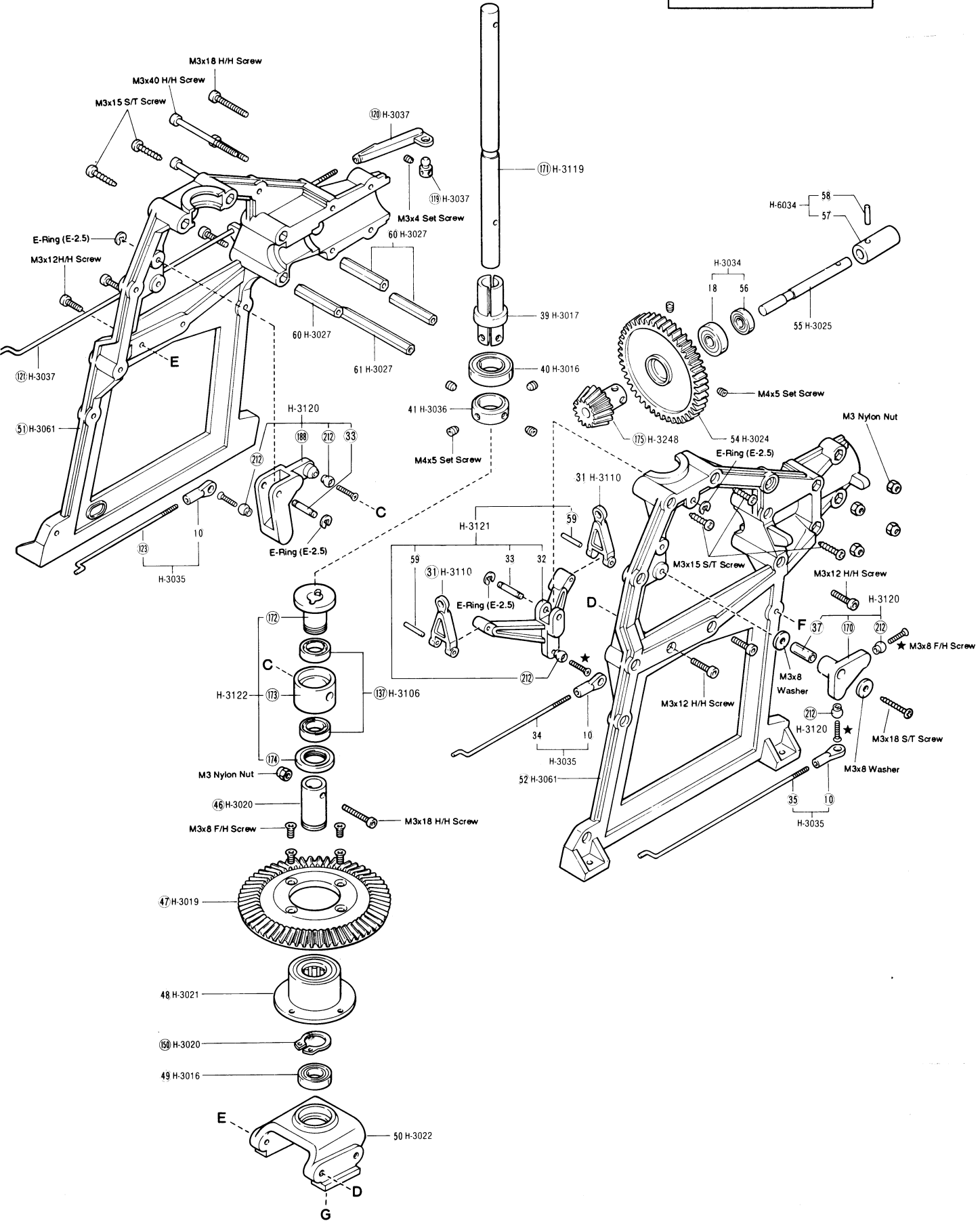
manual. Then consult our parts pack guide below. When referring to the parts you need, always use the parts pack number. For instance, if you need a **Rotor Head (B)** (key # 191) ask your dealer for Kyosho parts Pack **H-3112**.

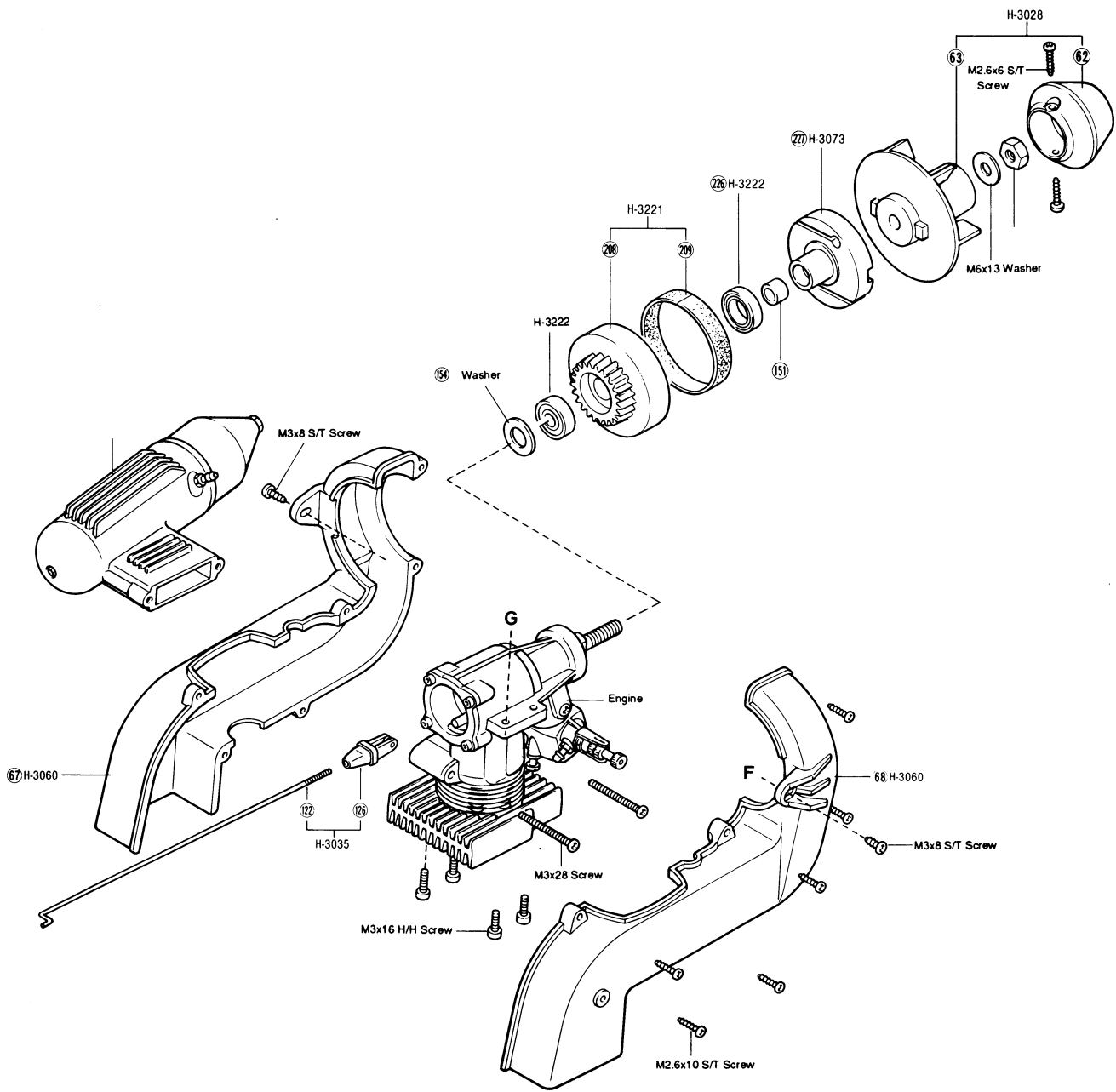


Stock #	Parts Pack	Description	Contains
KYOE6100	H-3112	Rotor Head	(191) (192) x1
KYOE6110	H-3113	See-Saw	(161) x1
KYOE1030	H-3003	Hiller Control Set	(6) (7) x1
KYOE1040	H-3004	Feathering Shaft Set	(12) (14) x2 (13) x4
KYOE5015	H-3217	Hard Dampers Red	(202) x10
KYOE1060	H-6006	5x13x4mm Bearing	(56) x2
KYOE6120	H-3114	Main Rotor Grip	(16) (165) (212) x2
KYOE6130	H-3115	Mixing Base	(166) x1 (169) x2
KYOE6140	H-3116	Linkage Set (A)	(162) (163) (164) (184) x2 (10) x10 (30) x1
KYOE1125	H-3242	Swash Plate	(216) x1 (212) x7

Stock #	Parts Pack	Description	Contains
KYOE1150	H-3063	Stabilizer Bar	(4) x2
KYOE6150	H-3117	Main Rotor Set	(185) (186) (187) x2
KYOE1300	H-3101	Stabilizer See-Saw Bearing	(128)x2
KYOE6160	H-3118	Mixing Lever Set	(24) (28) (167) (168) x2 (132) (212) x4 (133) x8
KYOE1320	H-3103	Mixing Lever Bearing	(129) x4
KYOE1330	H-3104	Stabilizer Blade	(148) x2
KYOE5055	H-3108	Ball End Set	(10) x10
KYOE5060	H-3109	Cyclic Lever Link	(24) x2
KYOE6270	H-3129	Stabilizer Ball End	(162) x6
KYOE1135	H-3241	Thrust Bearing Set	(203) (204) x2

**NOTE: The "Z-Bend" servo pushrods shown are not included. The Concept 30 SR Kits come with Ball Link Push Rods (H-3212)**

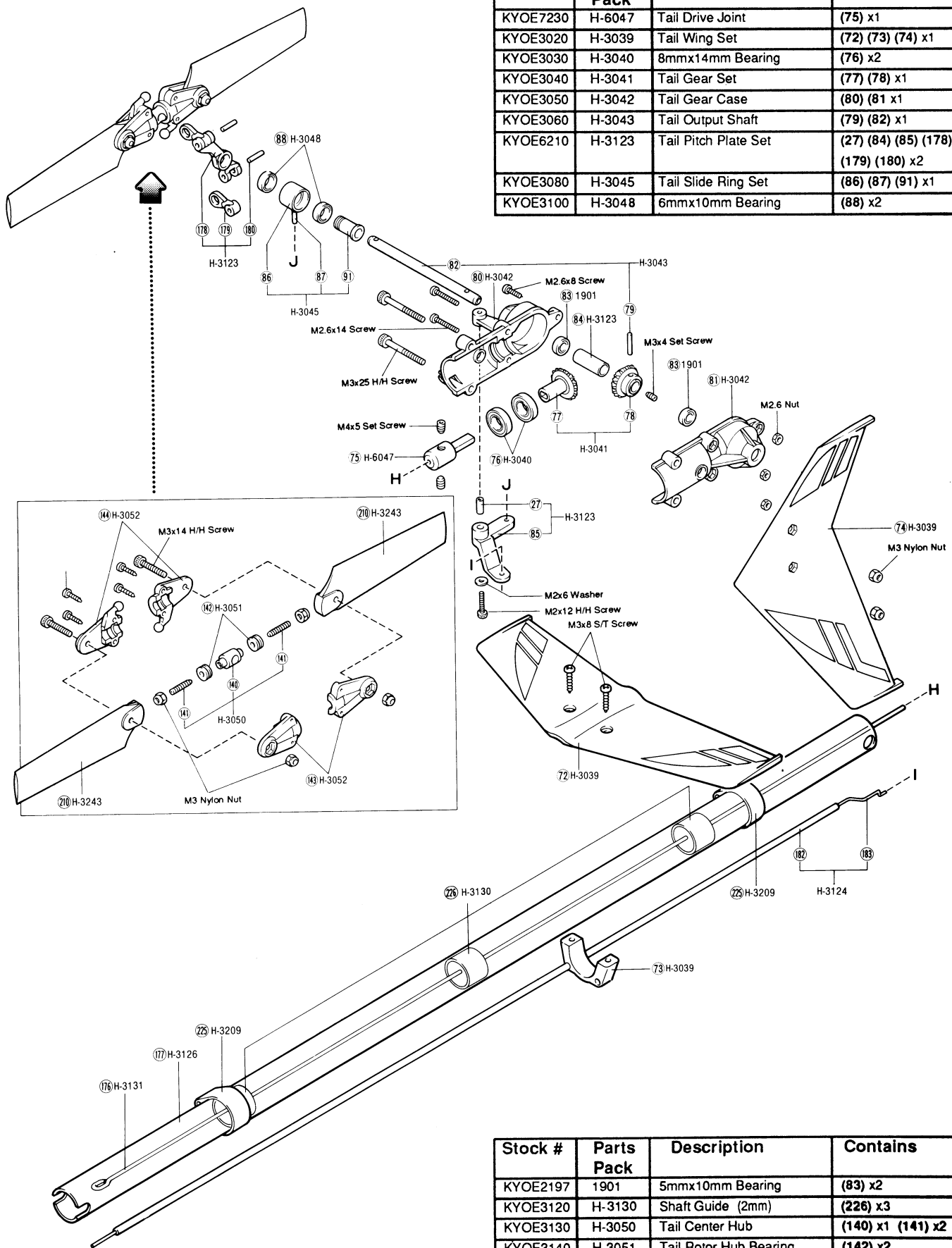




Stock #	Parts Pack	Description	Contains
KYOE6170	H-3119	Main Mast	(171) x1
KYOE2020	H-3016	Main Mast Bearing	(40) (49) x1
KYOE2030	H-3017	Pitch Rod Guide	(39) x1
KYOE2050	H-3019	Main Gear	(47) x1
KYOE2060	H-3020	One-Way Shaft	(46) (150) x1
KYOE2070	H-3021	One-Way Housing	(48) x1
KYOE2080	H-3022	Engine Mount	(50) x1
KYOE6055	H-3248	Hard Bevel Pinion	(175) x1
KYOE2100	H-3024	Counter Gear	(54) x1
KYOE2110	H-3025	Secondary Shaft	(55) x1
KYOE7165	H-6034	Tail Drive Coupling	(57) (58) x1
KYOE2130	H-3027	Threaded Inserts	(61) x1 (60) x3
KYOE2140	H-3028	Starter Cone Set	(62) (63) x1
KYOE2155	H-3073	One Piece Clutch	(227) x1
KYOE5042	H-3221	Drive Gear	(208) (209) x1
KYOE6190	H-3121	Elevater Lever Set	(32) (33) (212) x1 (59) x2

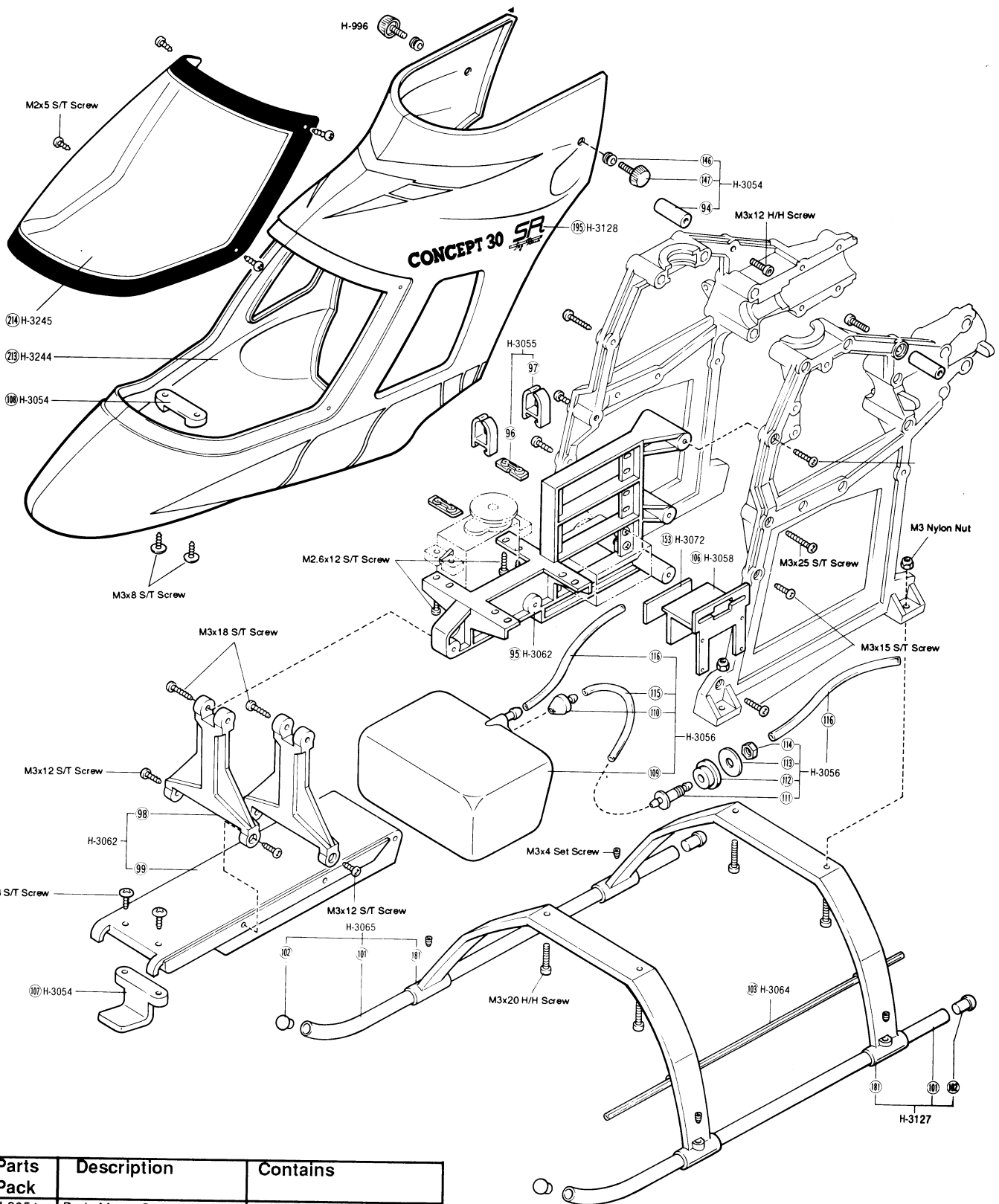
Stock #	Parts Pack	Description	Contains
KYOE6180	H-3120	Aileron Pitch Lever Set	(33) (37) (170) (188) x1 (212) x4
KYOE2200	H-3034	Secondary Shaft Bearing	(18) (56) x1
KYOE2210	H-3035	Linkage Set (B)	(34) (35) (122) (123) (126) x1 (10) x3
KYOE2220	H-3036	Mast Stopper	(41) x1
KYOE2230	H-3037	Rudder Linkage Rod	(119) (120) (121) x1
KYOE2240	H-3060	Fan Shroud	(67) (68) x1
KYOE2250	H-3061	Main Frame	(51) (52) x1
KYOE6200	H-3122	Pitch Slider Set	(172) (173) (174) x1
KYOE2270	H-3106	10mmx15mm Bearing	(137) x2
KYOE5044	H-3222	12mmx18mm Bearing	(226) x2
KYOE5070	H-3110	Elevator Link Rod	(31) x2
KYOE7325	H-6066	Linkage Ball	(212) x10
KYOE2156	H-997	Clutch Liner	(209) x3

Stock #	Parts Pack	Description	Contains
KYOE7230	H-6047	Tail Drive Joint	(75) x1
KYOE3020	H-3039	Tail Wing Set	(72) (73) (74) x1
KYOE3030	H-3040	8mmx14mm Bearing	(76) x2
KYOE3040	H-3041	Tail Gear Set	(77) (78) x1
KYOE3050	H-3042	Tail Gear Case	(80) (81) x1
KYOE3060	H-3043	Tail Output Shaft	(79) (82) x1
KYOE6210	H-3123	Tail Pitch Plate Set	(27) (84) (85) (178) x1 (179) (180) x2
KYOE3080	H-3045	Tail Slide Ring Set	(86) (87) (91) x1
KYOE3100	H-3048	6mmx10mm Bearing	(88) x2



Stock #	Parts Pack	Description	Contains
KYOE2197	1901	5mmx10mm Bearing	(83) x2
KYOE3120	H-3130	Shaft Guide (2mm)	(226) x3
KYOE3130	H-3050	Tail Center Hub	(140) x1 (141) x2
KYOE3140	H-3051	Tail Rotor Hub Bearing	(142) x2
KYOE3150	H-3052	Tail Rotor Grip	(143) (144) x1
KYOE3095	H-3243	Tail Rotor	(210) x1
KYOE6220	H-3124	Tail Linkage Set	(182) (183) x1
KYOE6230	H-3131	Tail Drive Shaft (2mm)	(176) x2
KYOE6240	H-3126	Tail Boom	(177) x1
KYOE5050	H-3209	Tail Link Guide	(225) x2
KYOE3155	ENS-04	Tail Rotor Grip Axle	(141) x4





Stock #	Parts Pack	Description	Contains
KYOE4010	H-3054	Body Mount Set	(107) (108) x1 (94) (146) (147) x2
KYOE4020	H-3055	Servo Plate / Wire Holder	(97) x2 (96) x10
KYOE4030	H-3056	Fuel Tank Set	(109) (110) (111) (112) (113) (114) (115) (116) x1
KYOE4040	H-3057	Screw Set	
KYOE4050	H-3058	Switch Mount	(106) x1
KYOE4060	H-3128	SR Decal	(195) x1
KYOE4070	H-3062	Front Frame Set	(95) (99) x1 (98) x2
KYOE4080	H-3064	Antenna Tube	(103) x5
KYOE6250	H-3127	Landing Gear Set	(101) (181) x2 (102) x4

Stock #	Parts Pack	Description	Contains
KYOE4105	H-3244	Body	(213) x1
KYOE4107	H-3245	Canopy	(214) x1
KYOE4115	H-3072	Double Sided Tape	(153) x1
KYOE6071	H-996	Canopy Screw	(147) x8



## WARRANTY INFORMATION

### WHAT THE CONCEPT 30SR WARRANTY MEANS TO YOU

- For 90 days after you purchase your CONCEPT 30SR, Kyosho will either repair or replace, at no charge, any incorrectly made part.
- Make sure you SAVE THE RECEIPT OR INVOICE you were given when you bought your model! It's your proof of purchase - and we must see it before we can honor the warranty.
- To send your CONCEPT 30 SR in for repairs covered under warranty, you should send your Helicopter to Kyosho's authorized U.S. repair facility:

Hobby Services  
1610 Interstate Drive  
Champaign, Illinois 61821  
Attn. Service Department  
Phone: (217) 398-0007

- For details on your return, be sure to follow Steps 1-4 under the "Repair Service Available Anytime" section.

#### **Limit of our Liability:**

Our liability under this warranty is limited to the repair or replacement of defective parts by Hobby Services and does not include cost of shipping to us. Hobby Services does pay the shipping expense to return warranty items to you.

#### **Exclusion and/or Voidance of Warranty:**

This warranty does not apply to damage or defects resulting from misuse, abnormal service, damage in shipment, damage resulting from a crash, or damage to the car caused by the batteries. The warranty is voided if the model is modified, altered, or repaired by anyone other than Hobby Services. This warranty gives you specific legal rights, and you may have other rights that vary from state to state within the U.S. We are sorry, but we cannot be responsible for crash damage and/or resulting loss of kits, engines, accessories, etc.

## REPAIR SERVICE AVAILABLE ANYTIME

- After the 90-day warranty has expired, you can still have your CONCEPT 30 SR repaired for a small charge by the experts at Kyosho's authorized U.S. repair facility.

Hobby Services  
1610 Interstate Drive  
Champaign, Illinois 61821  
Attn. Service Department  
Phone: (217) 398-0007

- To speed up the repair process, please follow the instructions listed below:
  - 1.) Under all circumstances, return the ENTIRE system: Helicopter and Radio.
  - 2.) Disconnect the receiver battery switch harness, and make sure the transmitter is turned off. Make sure all batteries are disconnected and any fuel drained.
  - 3.) Send written instructions which include: a list of all items returned, a THOROUGH explanation of the problem and the service needed, and your phone number where you can be reached during the day. If you expect your repair to be covered under warranty, be sure to include proof of date of purchase (your store receipt or purchase invoice).
  - 4.) Also include your full return address.

Repair charges and postage may be prepaid or billed C.O.D. Additional postage charges will be applied for non-warranty returns. All repairs shipped outside the United States must be prepaid in U.S. funds only.