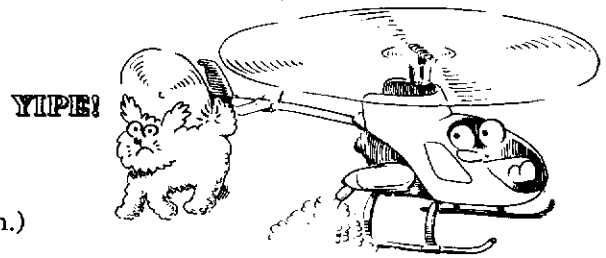


## BEFORE FLYING THE CONCEPT 60

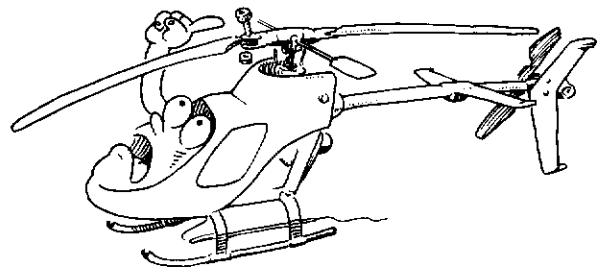
Now that you have completed the assembly of the Concept 60, you are ready to go but please be aware that helicopters fly at very high rotor speeds and can be very dangerous. Stay away from any obstacles and enjoy a safe flight.



(It is not uncommon for the blade tip velocity to be near 150 mph.)

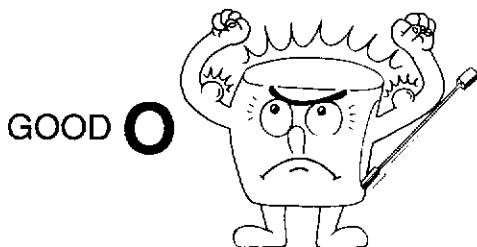
## SHORTCUT TO PROFICIENCY

1. Join the flying club. The quickest way to learn helicopter flight is to join a local flying club that has helicopter experts who can help you with flight training and set up.
2. Join the AMA (Academy of Model Aeronautics). The AMA can provide assistance in locating an R/C club in your area as well as providing liability insurance coverage. Consult your local hobby shop for details.
3. Check the entire helicopter before each flight.
4. Double check all the screws and nuts to make sure they are secure.
5. Join the IRCHA (International R/C Helicopter Assoc.) 6 225 Taylorville Rd. Dayton, OH. 45424.

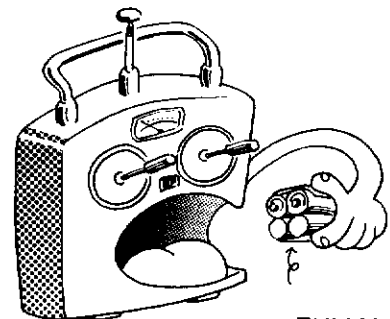


## BEFORE GOING TO THE FLYING FIELD

Make sure that the batteries for the transmitter and receiver are both fully charged.



BAD X

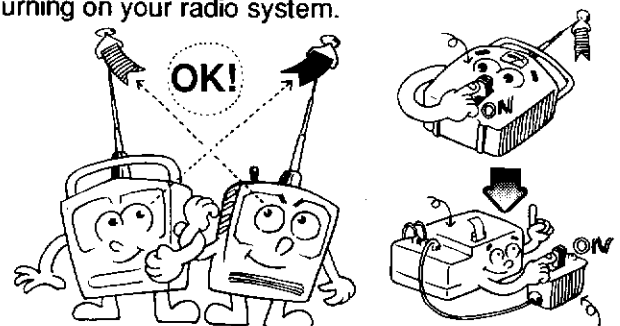
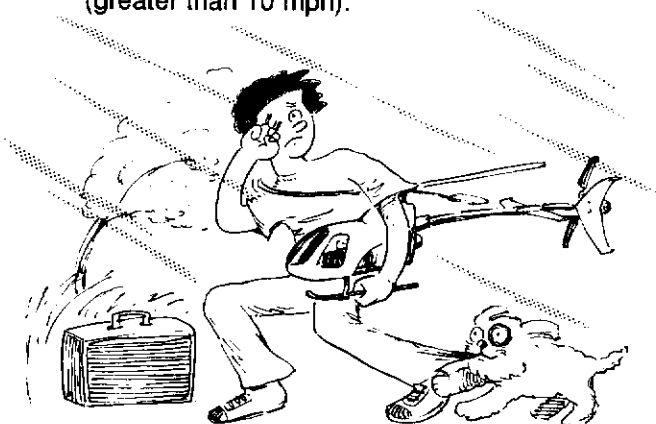


FULLY CHARGED

## AT THE FLYING FIELD

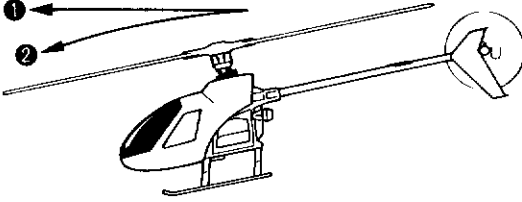
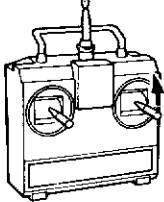
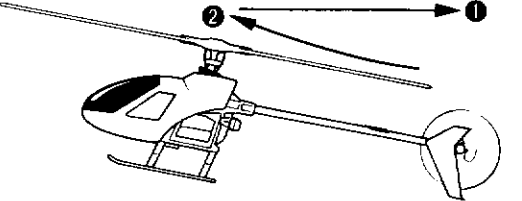
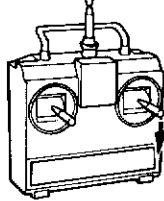
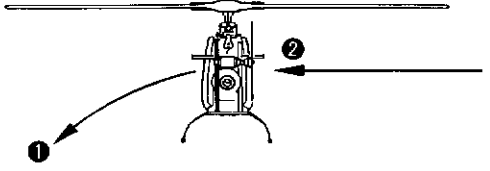
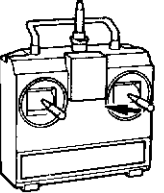
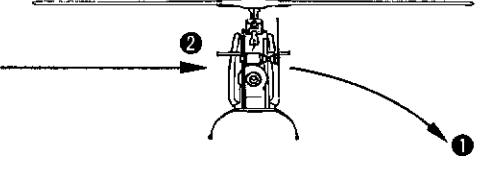
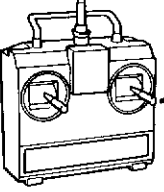
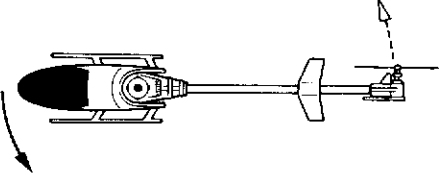
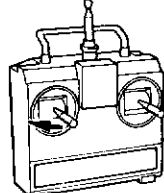
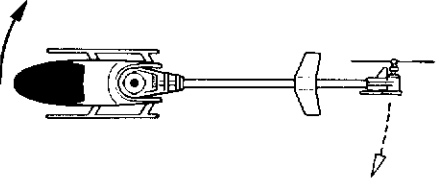
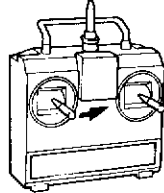
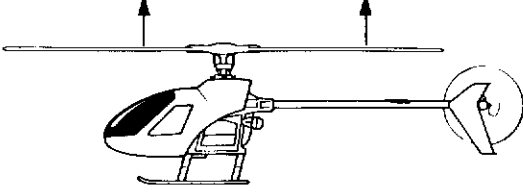
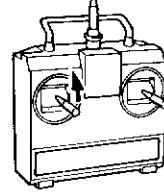
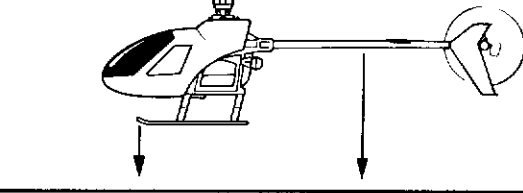
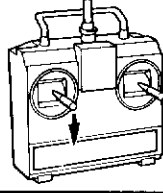
- If a novice is going to fly, try to avoid strong winds (greater than 10 mph).

- Confirm that no one else is on your frequency before turning on your radio system.



- Perform a range check according to your radios instruction manual.

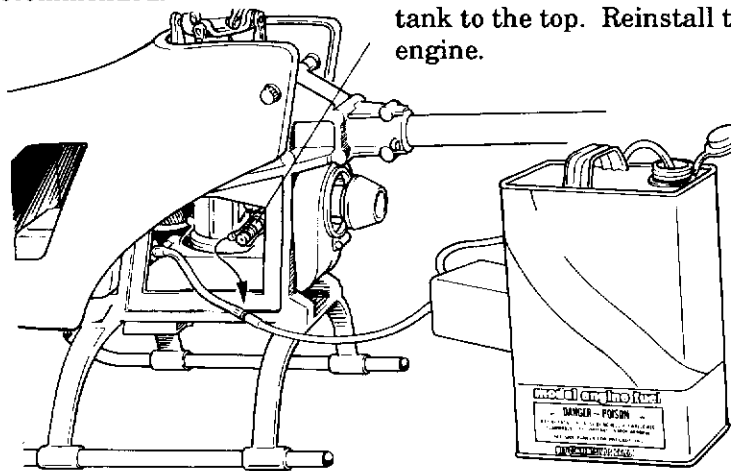
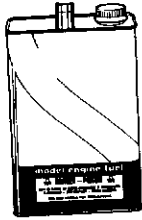
The Concept 60 will respond with these reactions to each signal from the radio.

|   | Helicopter Response   | Radio Stick Position  |                                |
|---|---|---|--------------------------------|
| TILTS AND MOVES FORWARD   |    |    | ELEVATOR STICK PUSHED FORWARD. |
| TILTS AND MOVES BACKWARD  |    |    | ELEVATOR STICK BACK.           |
| TILTS AND MOVES LEFT  |    |    | AILERON TO THE LEFT.           |
| TILTS AND MOVES RIGHT   |   |   | AILERON TO THE RIGHT.          |
| THE NOSE MOVES LEFT.<br>COUNTER-CLOCKWISE ROTATION.                                       |  |  | RUDDER STICK TO THE LEFT.      |
| THE NOSE MOVES RIGHT.<br>CLOCKWISE ROTATION.  |  |  | RUDDER STICK TO THE RIGHT.     |
| AS THE ENGINE'S RPMS INCREASE THE BLADE PITCH ALSO INCREASES AND THE HELICOPTER LIFTS UP. |  |  | ENGINE THROTTLE STICK HIGH.    |
| AS THE ENGINE'S RPMS DECREASE THE BLADE PITCH ALSO DECREASES AND THE HELICOPTER DESCENDS. |  |  | ENGINE THROTTLE STICK LOW.     |

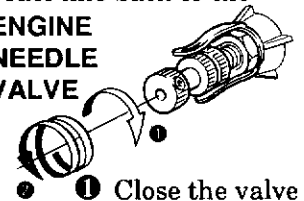
## FUELING

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.



**ENGINE  
NEEDLE  
VALVE**

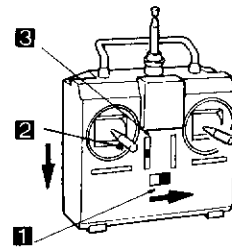


- ① Close the valve all the way.
- ② Then, reopen one and a half turns.

## STARTING THE ENGINE

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

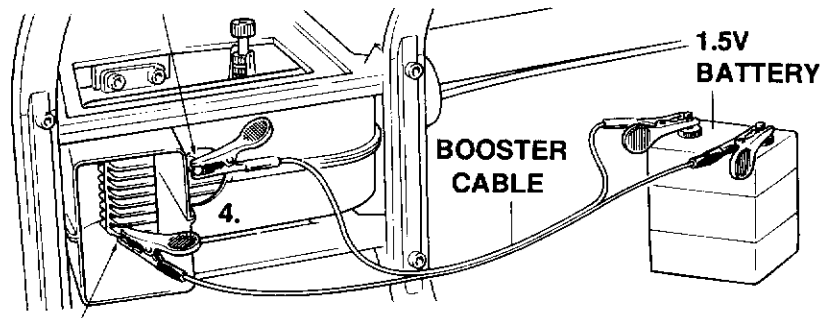
1. Turn on the radio system (In sequence-transmitter, receiver and gyro).
2. Keep the engine control stick in the low position.
3. Set the engine control trim in the neutral position. Low stick and partial trim will allow the engine to start without engaging the clutch.



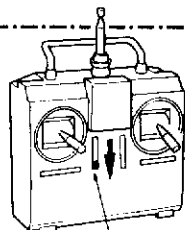
Clip to the plug.

Clip to the head.

4. Connect a glow plug clip to the glow plug and then to a 1.5V battery or power panel.

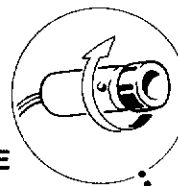


5. Hold the rotor head firmly in your left hand.
6. The starter should turn in the direction of the arrow. If not switch the battery leads. Press the starter against the starter cone and start the engine. Remove when it fires.
7. When the throttle trim is set low the engine should stop (If it doesn't readjust the linkage). This is an important safety adjustment.



**7. THROTTLE  
TRIM**

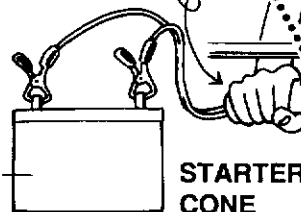
Make sure the starter is turning the proper direction.



6. Hold the starter to the cone

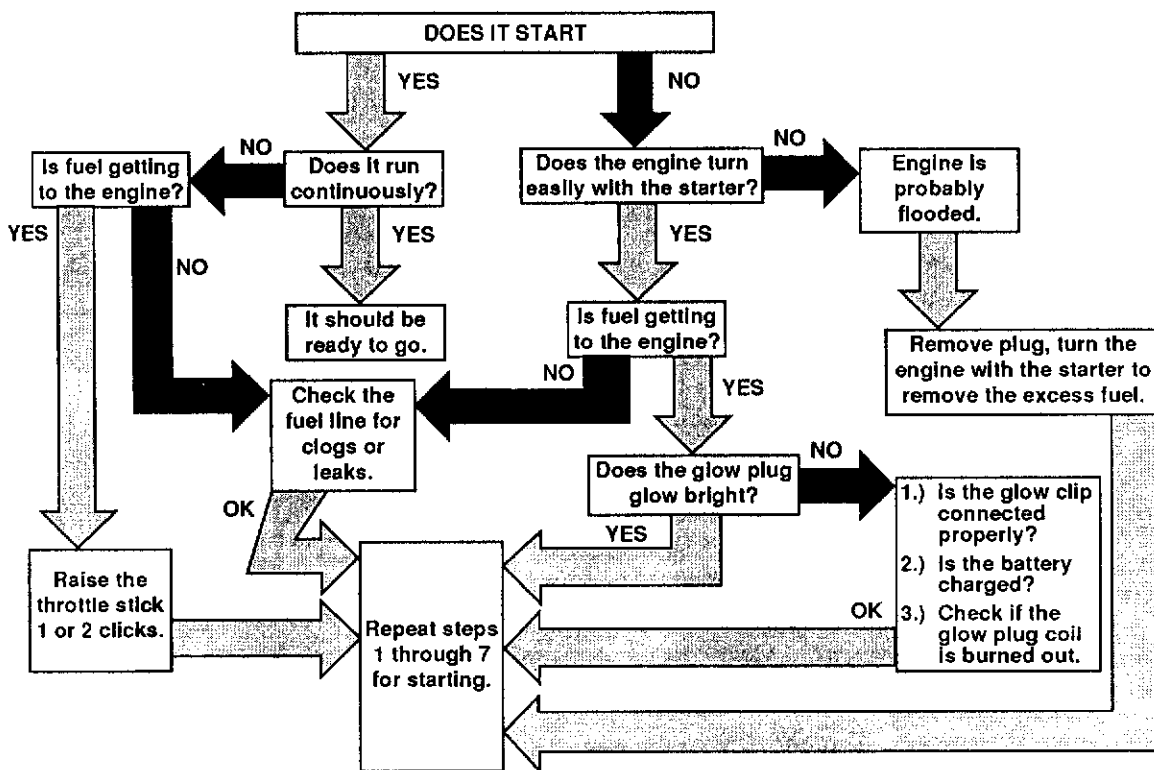
5. Hold on to the rotor head.

12V BATTERY



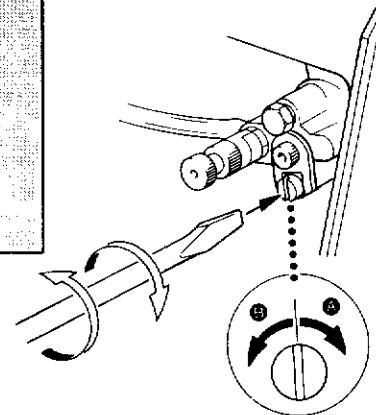
STARTER  
CONE

# ENGINE TROUBLESHOOTING

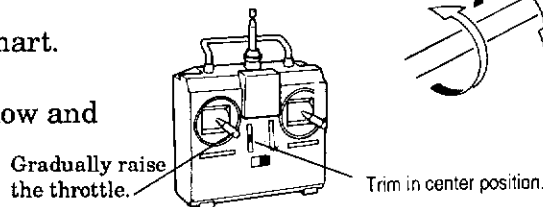


## IDLE SPEED ADJUSTMENT

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

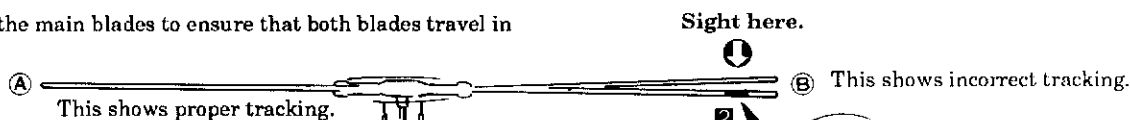


- If the engine does not start check the above chart.
- The engine should start if there is good fuel flow and the plug glows bright.



## FLYING STEP 1: CHECKING THE TRACKING

Adjust the tracking of the main blades to ensure that both blades travel in the same plane.

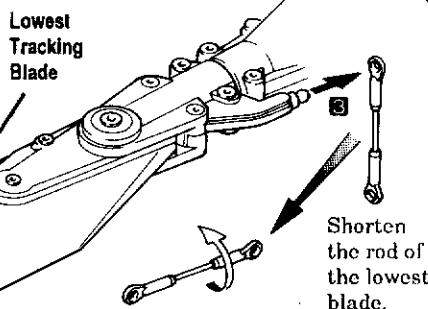


- Start the engine and set the helicopter on a smooth surface away from obstacles.

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.

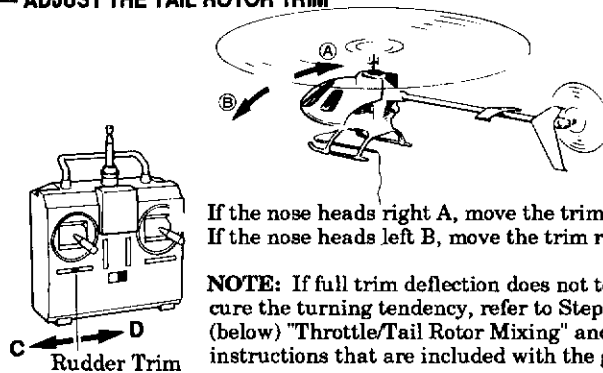
3. To adjust: Remove the pitch control rod of the low blade and shorten it one or two turns at a time. This increases the angle of attack of the low blade which will cause it to fly in the same plane as the high blade. Recheck the tracking again and repeat this step as necessary until perfect.



## 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 helicopter and adjust the trim so it will lift straight..

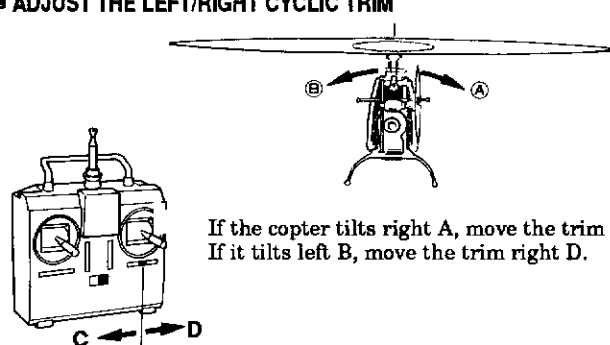
### 1 ADJUST THE TAIL ROTOR TRIM



If the nose heads right A, move the trim left C. If the nose heads left B, move the trim right D.

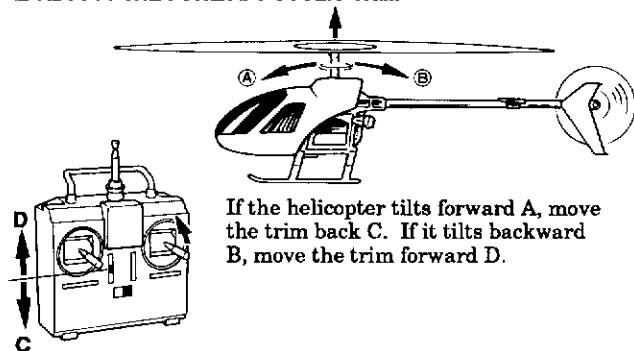
**NOTE:** If full trim deflection does not totally cure the turning tendency, refer to Step 4 (below) "Throttle/Tail Rotor Mixing" and the instructions that are included with the gyro.

### 2 ADJUST THE LEFT/RIGHT CYCLIC TRIM



If the copter tilts right A, move the trim left C. If it tilts left B, move the trim right D.

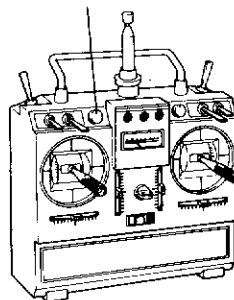
### 3 ADJUST THE FORE/AFT CYCLIC TRIM



If the helicopter tilts forward A, move the trim back C. If it tilts backward B, move the trim forward D.

### 4 ADJUST THE THROTTLE/TAIL ROTOR MIXING

#### MIXING CONTROL

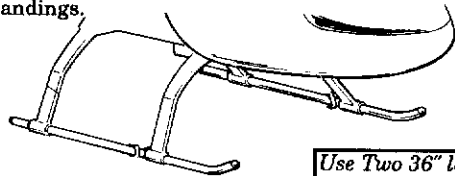


As the helicopter speeds up the relative torque on the helicopter chassis will cause it to rotate. This rotation can be controlled with the throttle/tail rotor (rudder) mixing function. See the radio manufacturer's instructions for proper set up and adjustment.

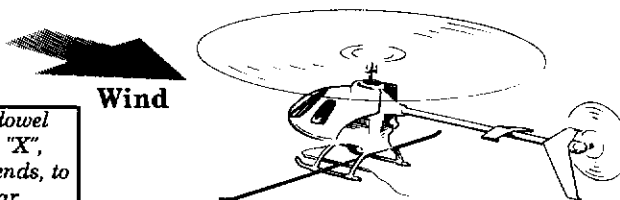
## FLYING STEP 3: BEFORE YOU BEGIN TO HOVER

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:

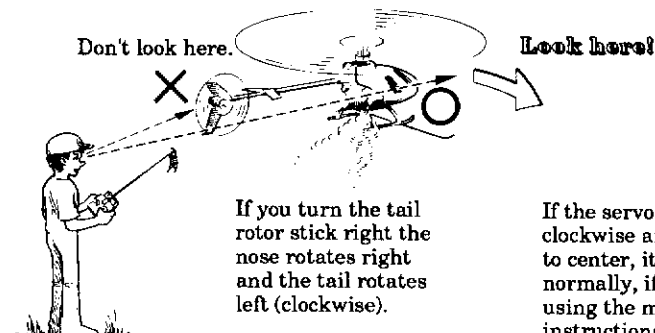
- If you are a beginner, it is helpful to install training gear for easier landings.
- When your practicing the hover always face the wind. This will the tail rotor more stable.



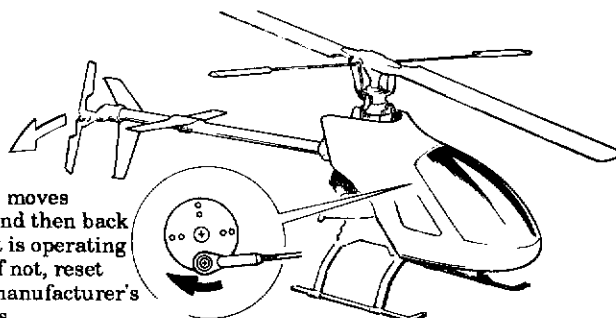
Use Two 36" long 3/8" dowel rods tied together as an "X", with wiffle balls on the ends, to easily create training gear.



- 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.
- Check the Gyro direction.



If you turn the tail rotor stick right the nose rotates right and the tail rotates left (clockwise).



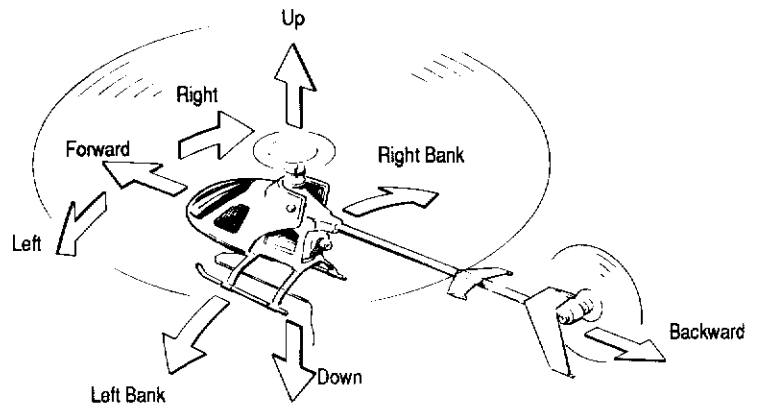
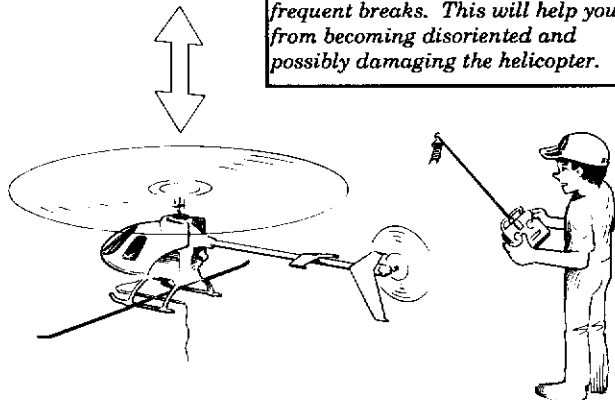
If the servo moves clockwise and then back to center, it is operating normally, if not, reset using the manufacturer's instructions.

## 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.

*Stay calm at all times and take frequent breaks. This will help you from becoming disoriented and possibly damaging the helicopter.*

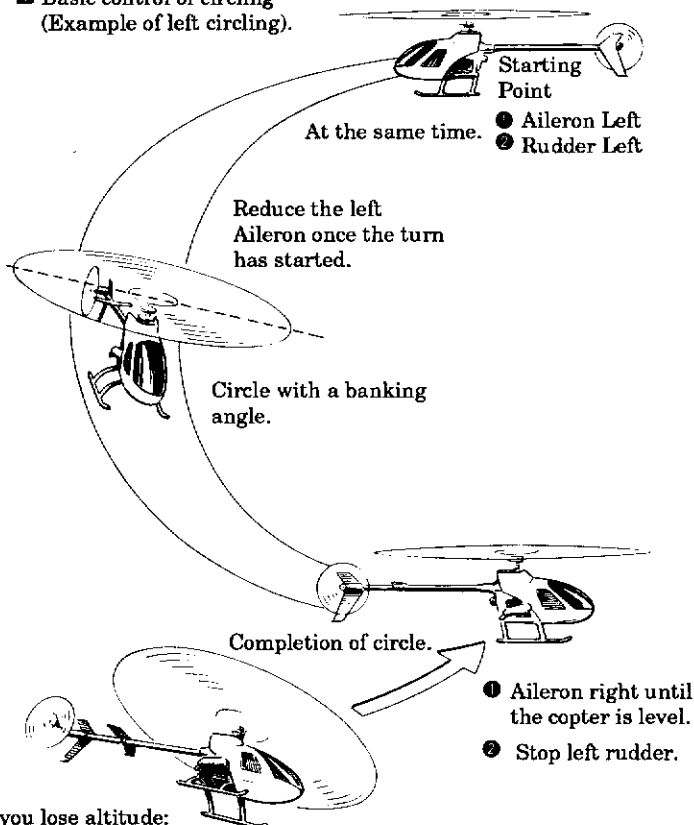


Once hovering is mastered you will have learned the most important and most common flight technique.

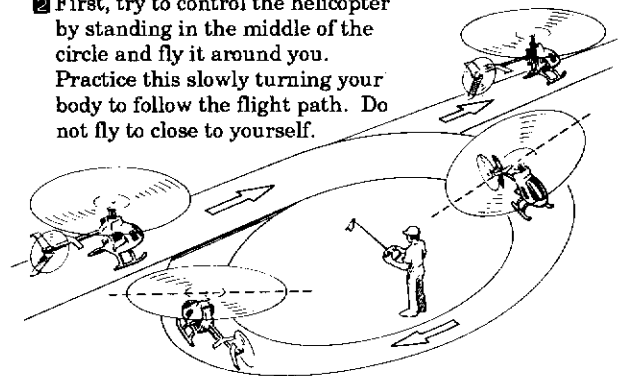
## FLYING STEP 5: FLYING CIRCLE

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. Always keep the tail facing away from you until you are competent at flying "Nose In". To learn "Nose In" hovering, go back to step 4, "Practice Hovering" and point the nose towards you. Take your time and be extra careful when attempting this difficult maneuver.

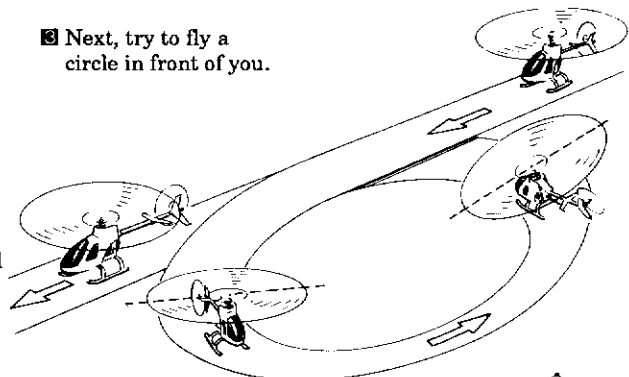
1 Basic control of circling  
(Example of left circling).



2 First, try to control the helicopter by standing in the middle of the circle and fly it around you. Practice this slowly turning your body to follow the flight path. Do not fly too close to yourself.



3 Next, try to fly a circle in front of you.



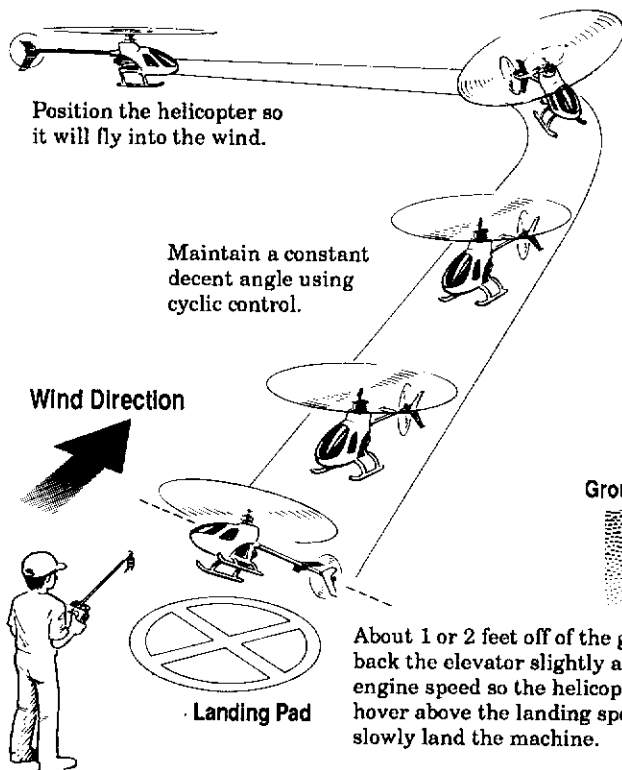
If you lose altitude:

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

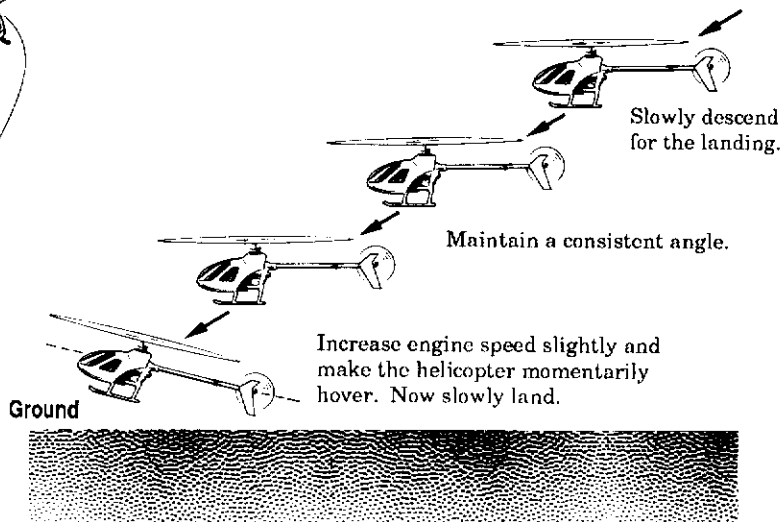
## FLYING STEP 6: LANDING

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.

### Basic landing control



### 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.

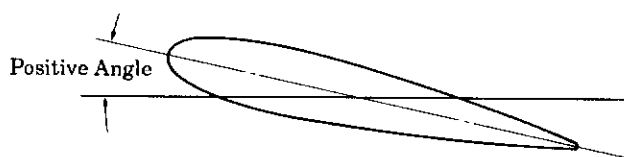
## FLYING STEP 7: AUTO-ROTATION

The Concept 60 is equipped with auto rotation system to minimize the damage of the helicopter in case the engine should stop during flight. Control can be retained by using the Autorotation technique.

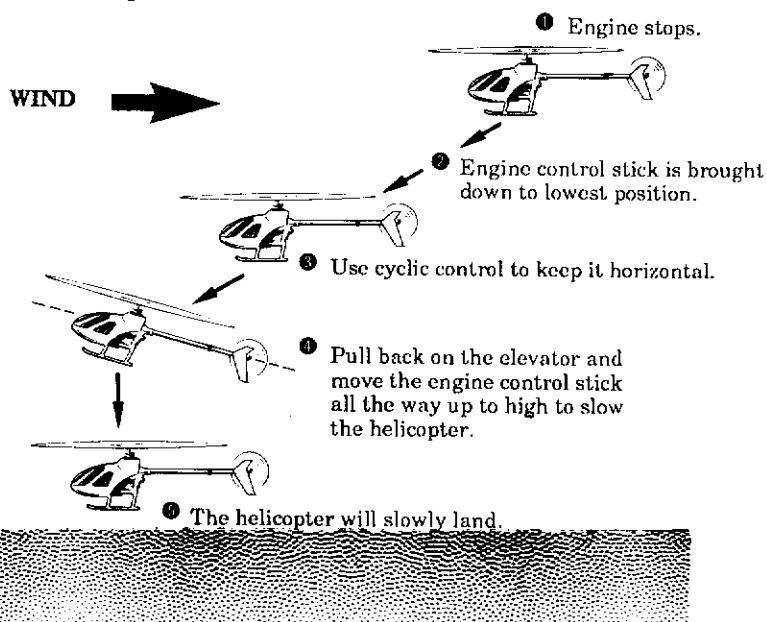
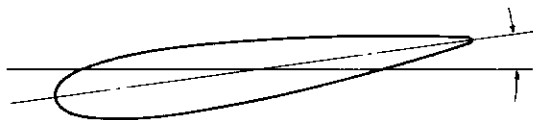
### AUTO ROTATION

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. It is most important to become familiar with the "Throttle Hold" switch on your transmitter. Experiment and prepare yourself by turning this switch ON and OFF while the helicopter is on the ground.

- For normal flights the pitch is positive.

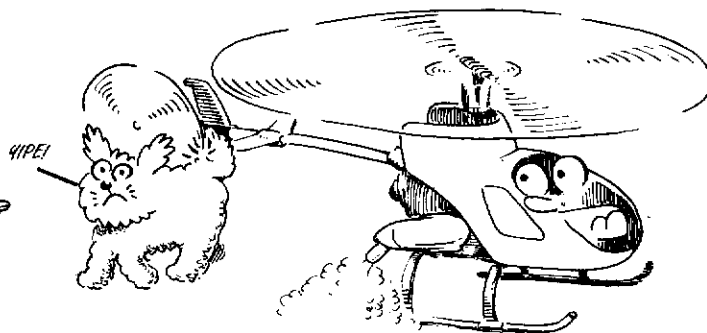
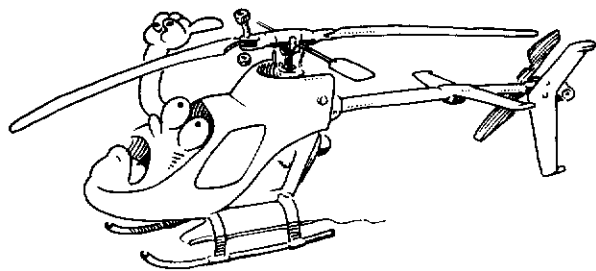


- For auto rotation capabilities set the low end pitch to -5° angle.



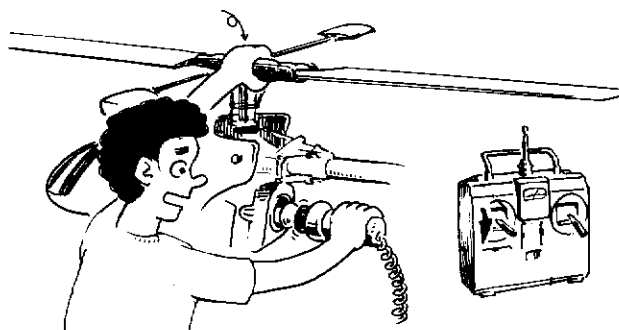
## FOR SAFE FLIGHTS ALWAYS OBSERVE THE FOLLOWING:

- 1 Check the entire helicopter before each flying session. Make sure that all screws and nuts are secure.
- 2 Keep away from obstacles.



- 3 Use caution when starting the engine. Always make sure that the throttle stick is in the low position. Grip the rotor head firmly.

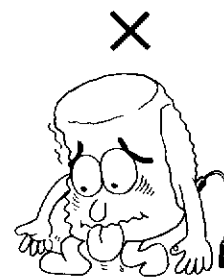
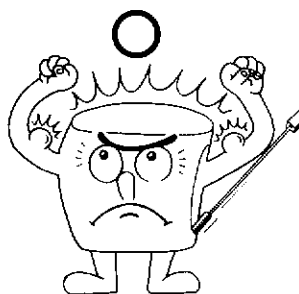
- 4 Never use damaged rotor blades. If you see that the main rotor blades are stressed, cracked or chipped, do not use. Replace with a new set of blades.



- 5 Thoroughly check the flying area before operating the helicopter. It should be free of obstacles.

- 6 Be sure the batteries are fully charged.

If your gyro is connected to the receiver battery, no more than two flights are recommended for a 500 mAh battery and no more than four flights for a 1000 mAh battery.



## MAINTENANCE NOTES

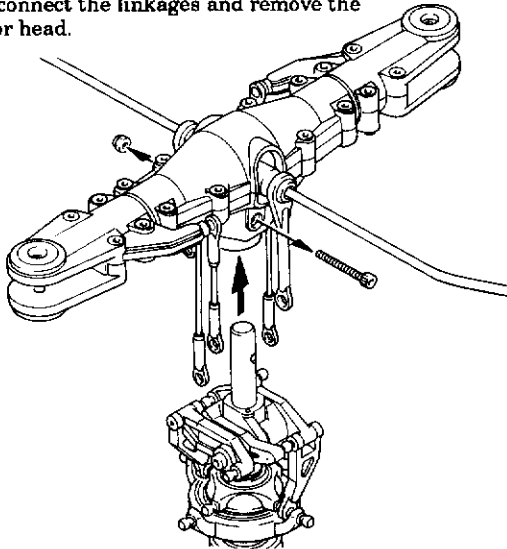
Downtime is not a bad word, it's just that airtime is much more fun. In the real world of full-size helicopters, **ten hours of scheduled maintenance** is commonly prescribed to support **one hour of flight time**, and that's why helicopters, of all forms of transportation, have the highest per hour and per mile operating costs. With this in mind, it is not hard to understand how you may want to spend 120 minutes inspecting and maintaining your Concept 60 in order to get 12 quality minutes in the air. There is a lot of mechanical and electronic complexity that can go wrong on a model helicopter, even one as well built as the Concept 60, and the pilot is ultimately responsible for his own quality airtime.



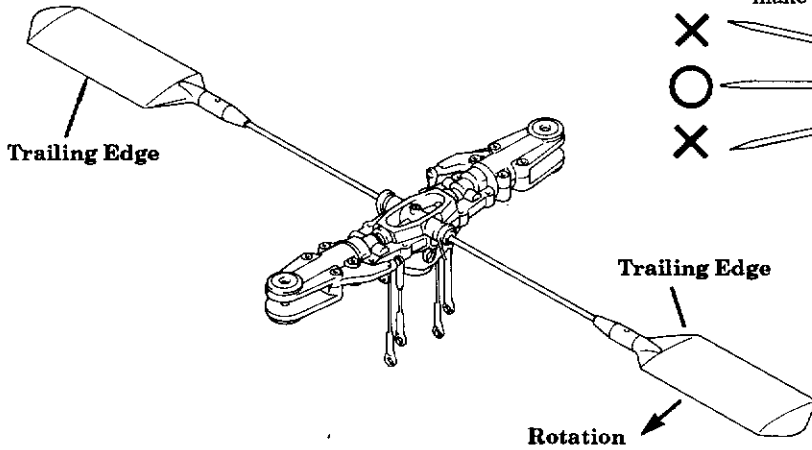
# PARTS REPLACEMENT GUIDE

## FLYBAR REPLACEMENT

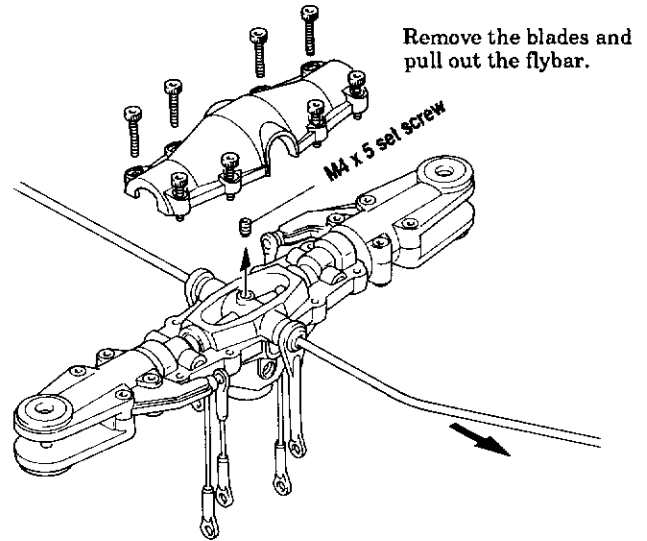
- 1 Disconnect the linkages and remove the rotor head.



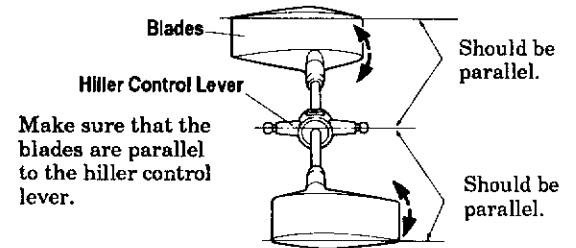
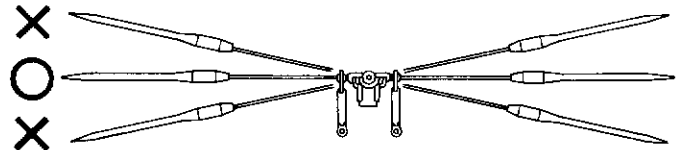
- 2 Install the new flybar and reinstall the blades.



- 2 Remove the top cover and the set screw.

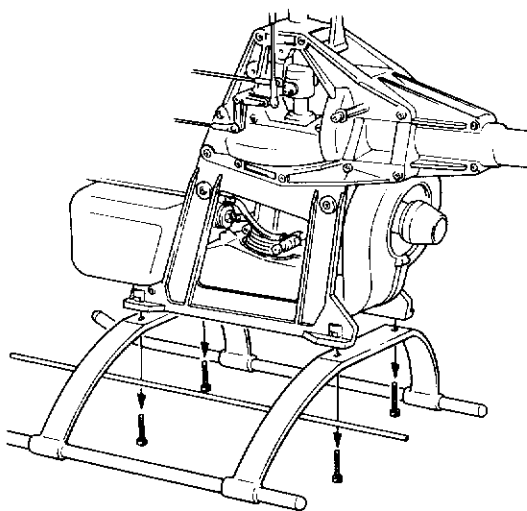


- 2 Balance the flybar. Add tracking tape to the lightest side and make sure the flybar is centered in the head.

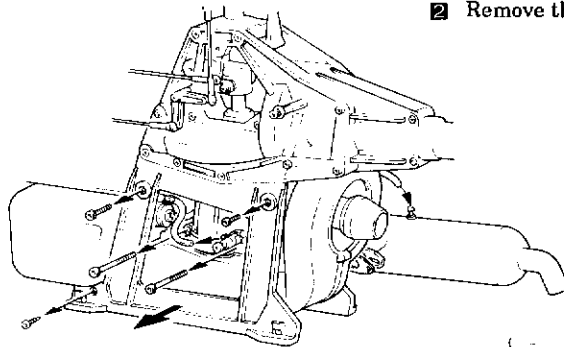


## REMOVING THE ENGINE

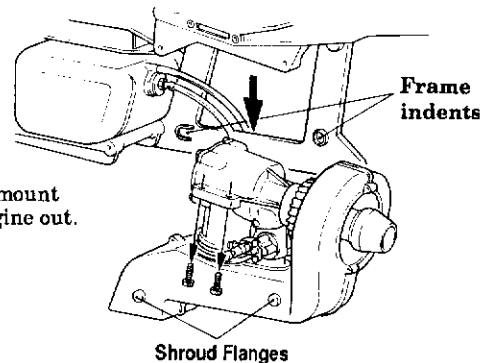
- 1 Remove the landing gear.



- 2 Remove the frame side and the muffler.



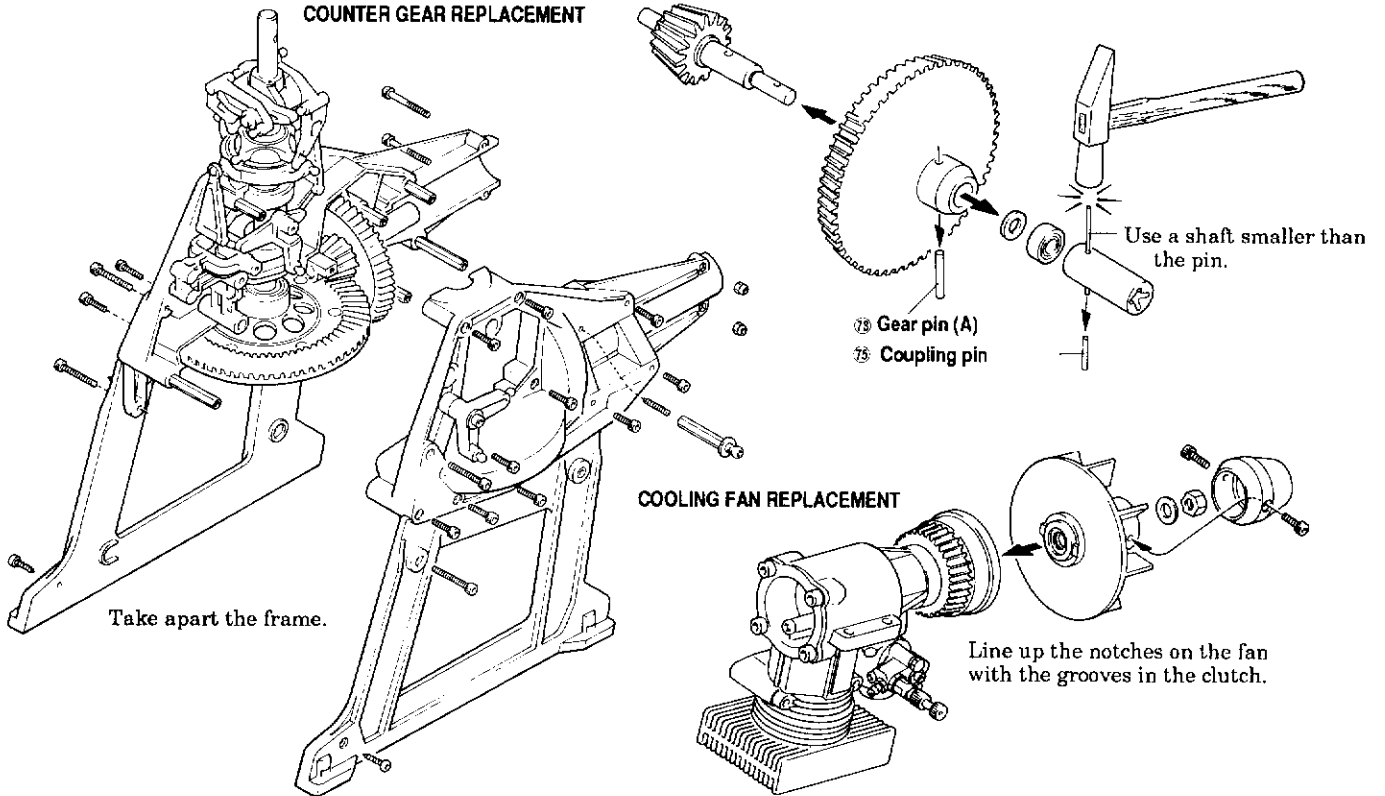
- 2 Remove the four engine mount screws and lower the engine out.



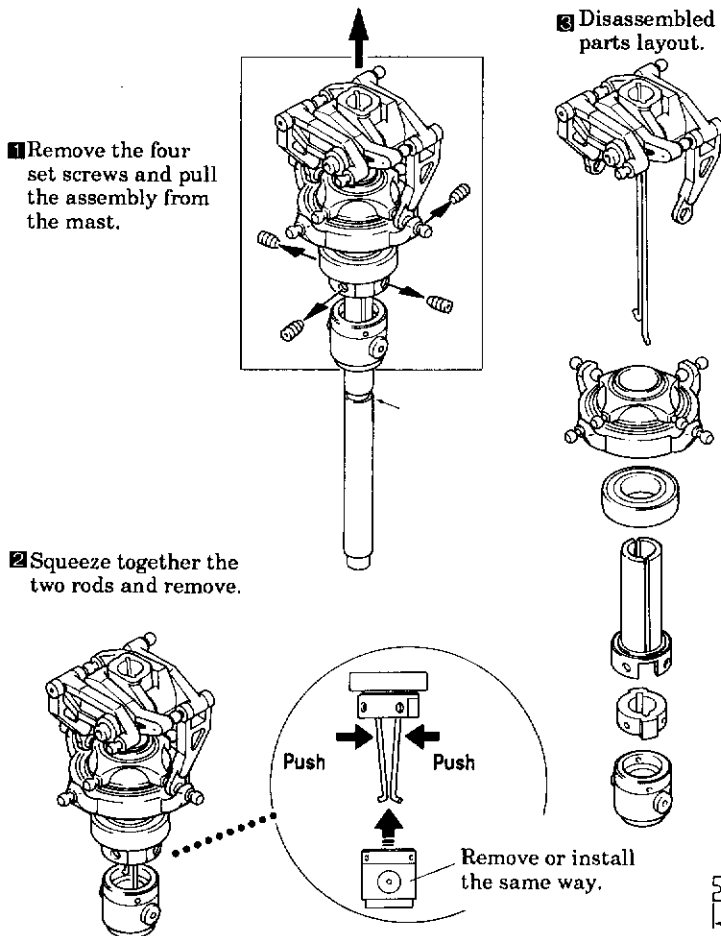
Install in reverse order.

# PARTS REPLACEMENT GUIDE (CONTINUED)

## COUNTER GEAR REPLACEMENT

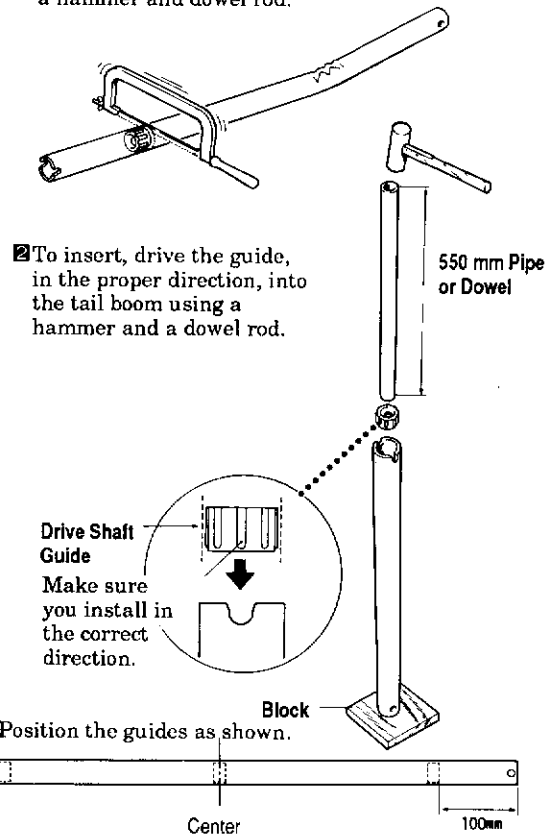


## SWASHPLATE DISASSEMBLY



## DRIVE SHAFT GUIDE REPLACEMENT

- 1 Cut the boom on both sides of the guide and carefully tap it out with a hammer and dowel rod.



# OPTIONAL HOP-UP PARTS

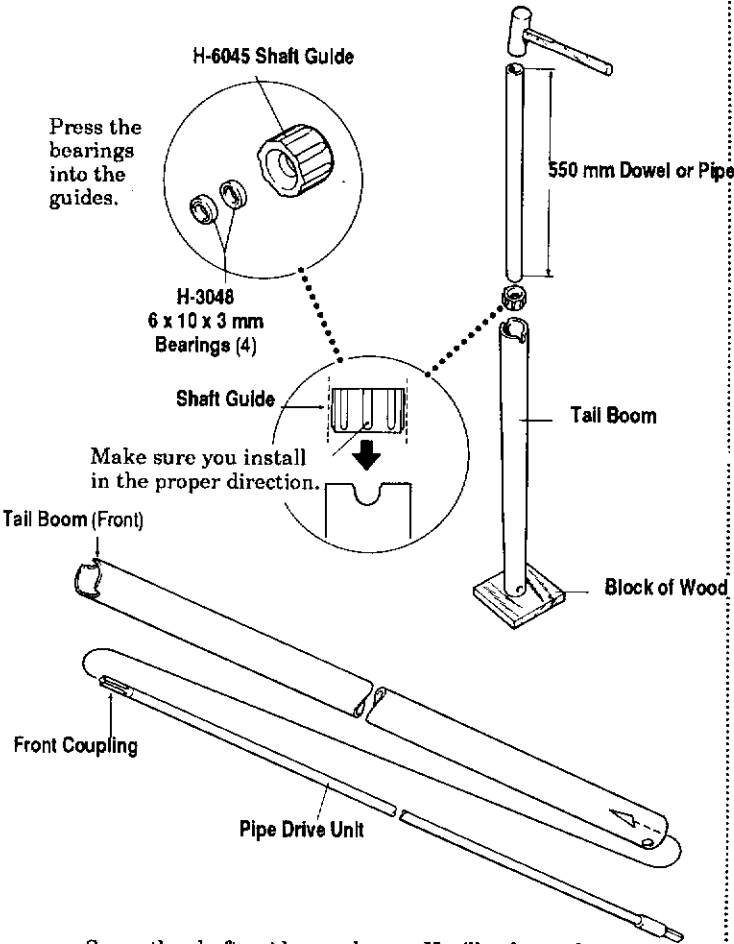
The Kyosho Concept 60 Helicopter is a master engineered machine that can fly competitively right out of the box. However, if even more performance and durability is desired, the below items would prove invaluable.

H-6201 Muffler (O.S.-Enya-Y.S.) will increase engine output over the standard.

H-6202 Expert Blades will allow faster response and more agile performances.

H-6203 Pipe Drive Unit will increase durability and tail response for superior performance and strength. Eliminates the "Twisting" or "Winding" commonly found with wire drives. Provides a much more powerful and precise tail. (See Below.)

H-6207 3 x 6 2 mm Bearings will reduce friction and increase performance.



Space the shaft guides as shown. You'll only need two.

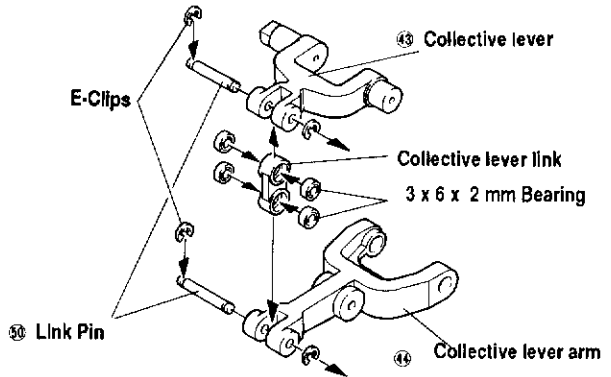


H-6204 - Flybar Weights (Light)

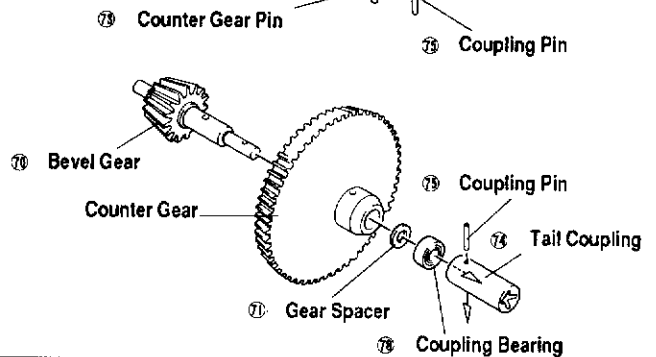
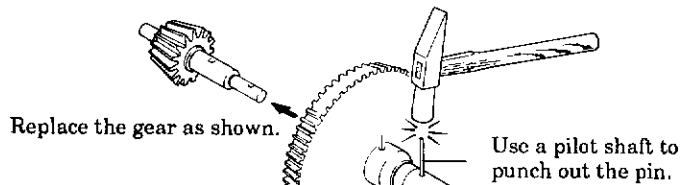
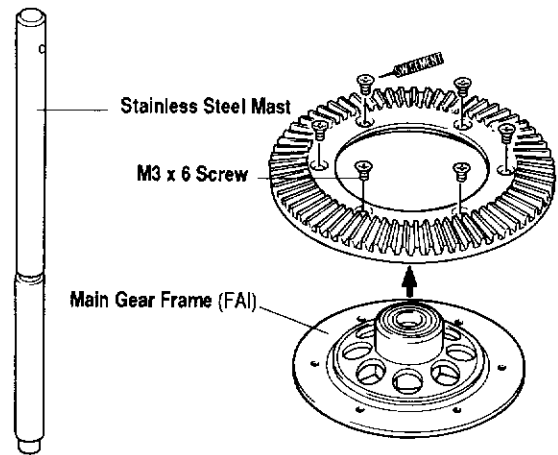
H-6205 - Light Weight Paddles

|                        |                        |                        |                        |
|------------------------|------------------------|------------------------|------------------------|
| Stable ←               |                        | → Agile                |                        |
| Flybar Weights (Stock) | Flybar Weights (Light) | Flybar Weights (Stock) | Flybar Weights (Light) |
| Paddles (Stock)        | Paddles (Light)        | Paddles (Stock)        | Paddles (Light)        |

H-6206 - Carbon Fiber Tail Boom for lighter weight and increased strength.



H-6208 Counter Gear (FAI)  
H-6209 Main Gear Frame (FAI)  
H-6210 Stainless Steel Mast



## OPTIONAL HOP-UP PARTS

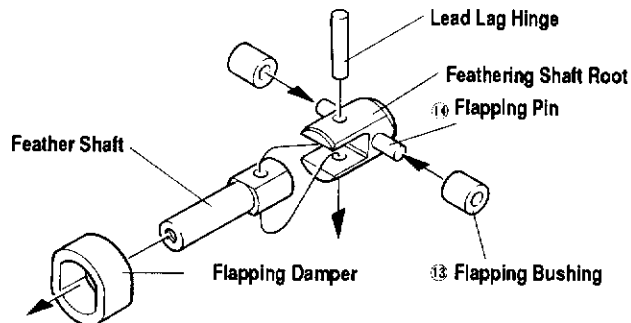
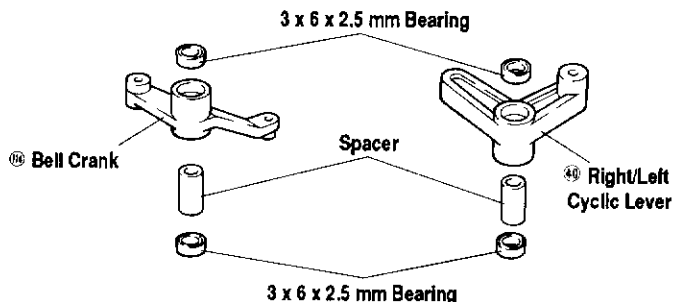
H-6211 Flapping Hinge Bearing replaces #13 for increased precision and durability.

PI-15 8 x 12 x 3.5 mm Bearing will replace #39 Bushing to reduce friction and add performance.

H-6213 Lever Bearing Set use with #114 and #40 to increase performance and reduce friction loss.

H-6215 Main Rotor Blade Case is to protect your main blades during storage and transportation.

H6214 Lead/Lag Shaft (optional)



| Stock #  | Part # | Description                |
|----------|--------|----------------------------|
| KYOE7500 | H-6201 | Muffler (O.S.-Enya-YS)     |
| KYOE7505 | H-6202 | Main Blades - Expert       |
| KYOE7510 | H-6203 | Pipe Drive Unit            |
| KYOE7515 | H-6204 | Stab Weight (Light)        |
| KYOE7520 | H-6205 | Stab Blade (Light)         |
| KYOE7525 | H-6206 | Carbon Tail Boom           |
| KYOE7530 | H-6207 | Pitch Lever Bearings       |
| KYOE7535 | H-6208 | Counter Gear (FAI)         |
| KYOE7540 | H-6209 | Main Gear Frame (FAI)      |
| KYOE7545 | H-6210 | Main Mast Stainless        |
| KYOE7550 | H-6211 | Flapping Hinge Bearing (4) |

| Stock #  | Part #  | Description                 |
|----------|---------|-----------------------------|
| KYOE7560 | H-6213  | Lever Bearing Set           |
| KYOE7565 | H-6214  | Lead/Lag Shaft Set          |
| KYOE7570 | H-6215  | Main Rotor Case             |
| KYOC2216 | PI-15   | 8 x 12 x 3.5 mm Bearing (2) |
| KYOE7191 | H-6039B | Clutch - Enya               |
| KYOE7192 | H-6039C | Clutch - YS                 |
| KYOE5052 | H-3220  | Tracking Tape               |
| KYOE8000 | 1790    | Colored Fuel Tubing         |
| KYOE8076 | 1876    | Fuel Filter                 |
| KYOE8054 | 1844    | Antenna Holder              |
| KYOE6000 | 2161    | Blade Balancer              |
| KYOE7201 | H-6041C | Cooling fan - YS            |

### NOTES

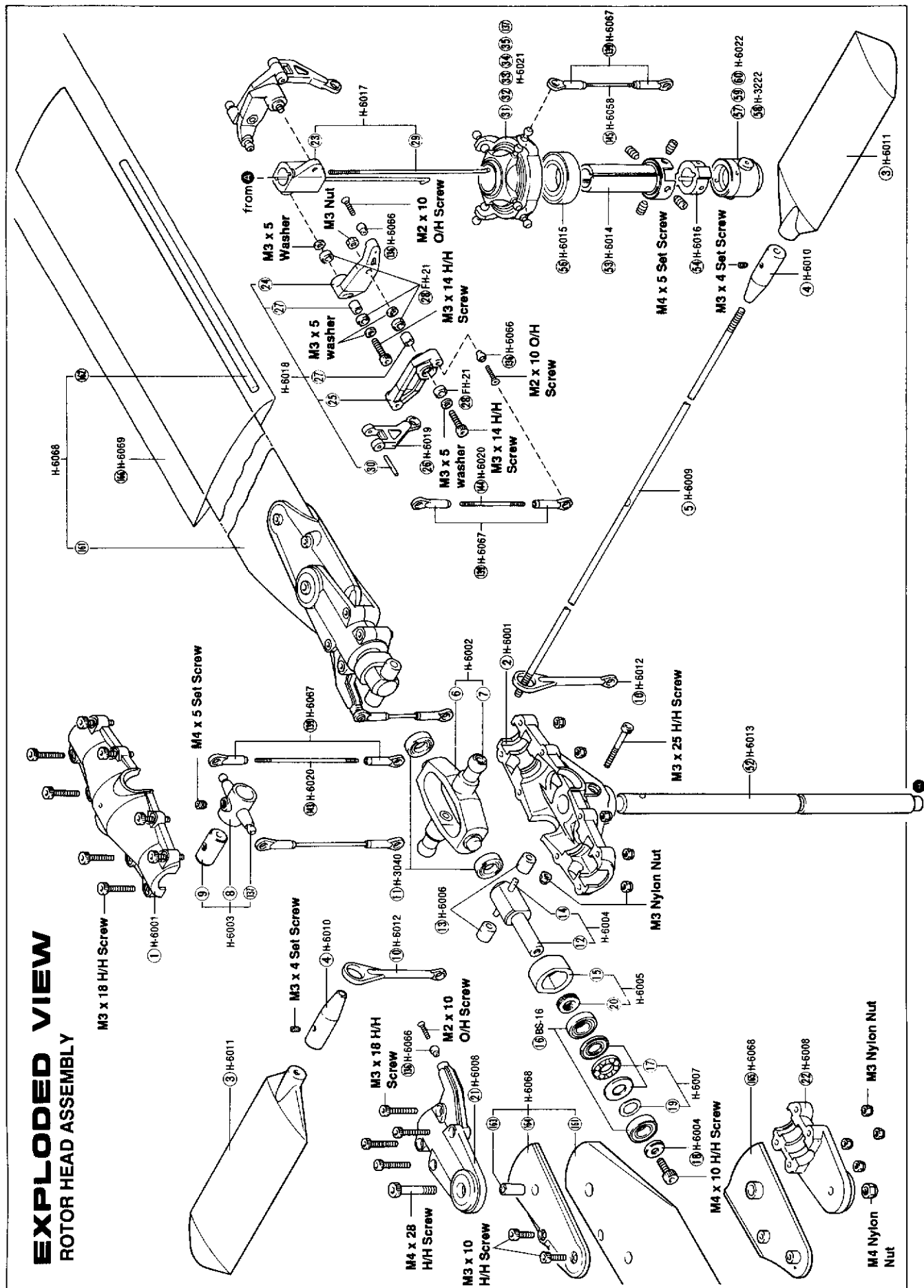
To ensure consistent engine performance choose a quality Glo Plug. During our flight testing, we found the O.S. #8 plug has the best reliability and performance.

For the smoothest forward flight, Do not remove the stabilizer weights. Also, higher grade composite blades will most likely be a better choice for competition.

Higher Nitromethene fuels seem to be the trend for optimum power output form your engine.

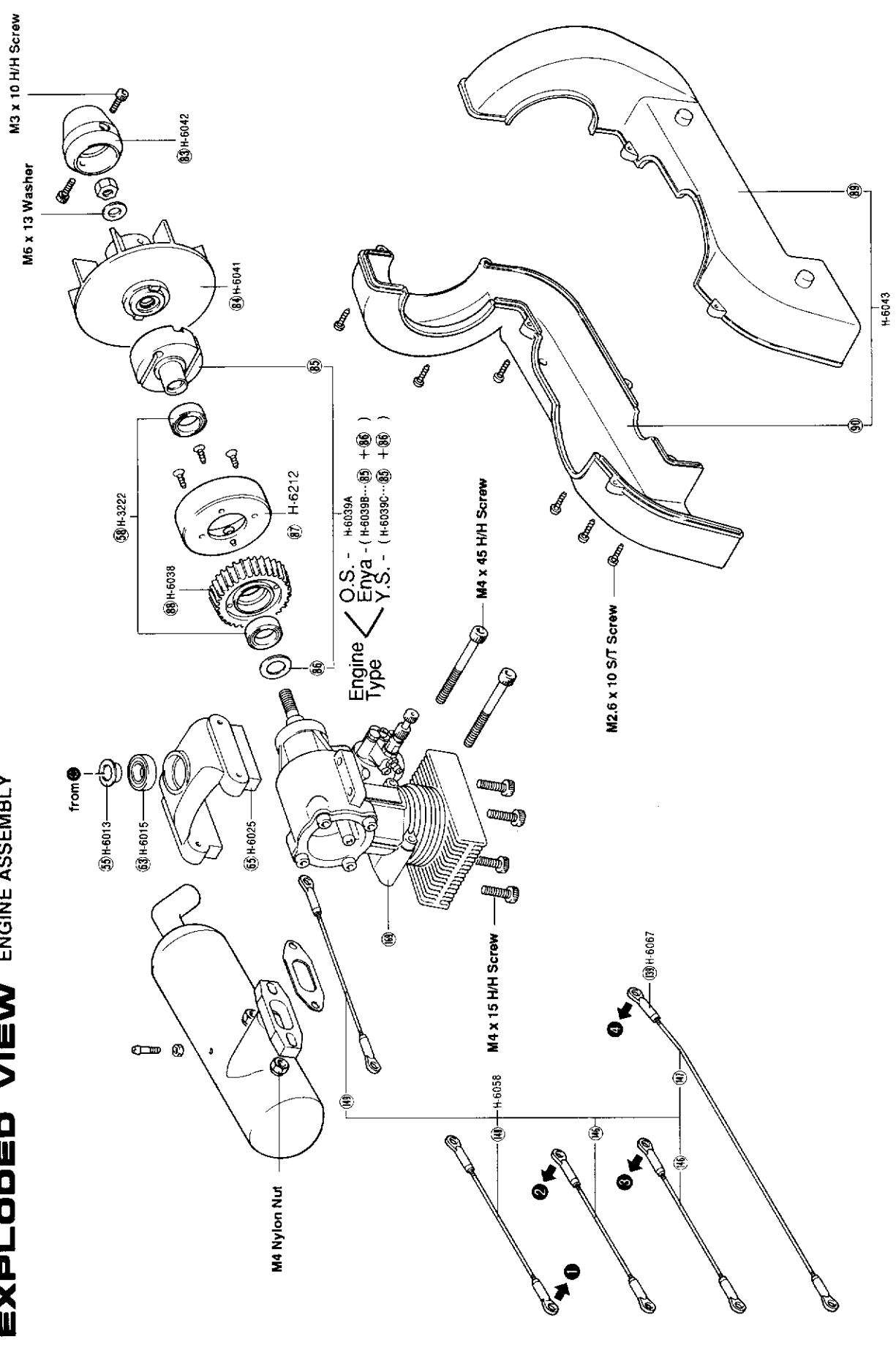
For top efficiency and performance, we recommend the use of a Kyosho muffler or Hatori 666 tuned pipe.

# EXPLODED VIEW ROTOR HEAD ASSEMBLY





# EXPLODED VIEW ENGINE ASSEMBLY









# CONCEPT 60 PARTS LISTING

| KEY# | DESCRIPTION             | QTY. | KEY# | DESCRIPTION              | QTY. | KEY# | DESCRIPTION          | QTY. | KEY# | DESCRIPTION         | QTY. |
|------|-------------------------|------|------|--------------------------|------|------|----------------------|------|------|---------------------|------|
| 1.   | Rotor Head (B)          | 1    | 46.  | 3 x 6 x 7.5mm Bushing    | 2    | 91.  | Tail Drive Shaft     | 1    | 136. | Pivot Balls         | 22   |
| 2.   | Rotor Head (A)          | 1    | 47.  | Collective Lever Bushing | 1    | 92.  | Tail Boom            | 1    | 138. | Ball End (S)        | 2    |
| 3.   | Stabilizer Blades       | 2    | 48.  | Collective Lever Link    | 1    | 93.  | Shaft Guide          | 3    | 139. | Ball End (L)        | 20   |
| 4.   | Stabilizer Weight       | 2    | 49.  | Round Insert             | 1    | 94.  | Guide Bushing        | 3    | 140. | Pivot Arm           | 2    |
| 5.   | Stabilizer Bar          | 1    | 50.  | Link Pin (B)             | 2    | 95.  | Tail Drive Joint     | 1    | 141. | Rudder Pivot Guide  | 1    |
| 6.   | Stabilizer seesaw       | 1    | 51.  | Link Pin (C)             | 1    | 96.  | Tail Input Gear      | 1    | 142. | Pivot Rod Guide     | 2    |
| 7.   | Seesaw Pivot Balls      | 2    | 52.  | Main Mast                | 1    | 97.  | Tail Output Gear     | 1    | 143. | Hiller Control Rod  | 2    |
| 8.   | Hiller Control Lever    | 1    | 53.  | Pitch Mast Guide         | 1    | 98.  | Tail Gear Box (R)    | 1    | 144. | Pitch Control Rod   | 2    |
| 9.   | Stabilizer Bushing      | 1    | 54.  | Mast Stopper             | 1    | 99.  | Tail Gear Box (L)    | 1    | 145. | 50mm Rod            | 1    |
| 10.  | Stabilizer Control Rod  | 2    | 55.  | Bushing Spacer (FL)      | 1    | 100. | 5 x 13 x 4mm Bearing | 2    | 146. | 85mm Rod            | 2    |
| 11.  | 8 x 14 x 3.5mm Bearing  | 2    | 56.  | 15 x 28 x 7mm Bearing    | 1    | 101. | Tail Output Shaft    | 1    | 147. | 183mm Rod           | 1    |
| 12.  | Feathering Shaft        | 2    | 57.  | Pitch Slider (A)         | 1    | 102. | Gear Pin (B)         | 1    | 148. | 95mm Rod            | 1    |
| 13.  | Flapping Bushing        | 4    | 58.  | 12 x 18 x 14mm Bearing   | 2    | 103. | Slider Ring          | 1    | 149. | 120mm Rod           | 1    |
| 14.  | Flapping Pin            | 2    | 59.  | Pitch Slider (B)         | 1    | 104. | Slider Bushing       | 1    | 150. | Tail Control Rod    | 1    |
| 15.  | Flapping Damper         | 2    | 60.  | Pitch Slider (C)         | 1    | 105. | 6 x 10 x 3mm Bushing | 2    | 151. | Guide Tube          | 1    |
| 16.  | 8 x 16 x 5mm Bearing    | 4    | 61.  | One-way Housing (A)      | 1    | 106. | Tail Pitch Arm       | 1    | 152. | Servo Mount         | 10   |
| 17.  | Thrust Bearing          | 2    | 62.  | Main gear                | 1    | 107. | Tail Ball End        | 2    | 153. | Switch Mount        | 1    |
| 18.  | Bearing Cap             | 2    | 63.  | 10 x 19 x 5mm Bearing    | 3    | 108. | Link Pin (D)         | 2    | 154. | Body Mount (A)      | 1    |
| 19.  | Shim                    | 2    | 64.  | One-way Housing (B)      | 1    | 109. | Tail Center Hub      | 1    | 155. | Body Mount (B)      | 1    |
| 20.  | O-ring Seal             | 2    | 65.  | Engine Mount             | 1    | 110. | 5 x 10 x 4mm Bearing | 4    | 156. | Fuselage            | 1    |
| 21.  | Grip (A)                | 2    | 66.  | Upper Frame (L)          | 1    | 111. | Tail Grip (A)        | 1    | 157. | Canopy              | 1    |
| 22.  | Grip (B)                | 2    | 67.  | Upper Frame (R)          | 1    | 112. | Tail Grip (B)        | 1    | 158. | Body Grommets       | 2    |
| 23.  | Mixing Base             | 1    | 68.  | Lower Frame (A)          | 1    | 113. | Tail Blades          | 2    | 159. | 5.8mm Pivot Balls   | 2    |
| 24.  | Mixing Lever            | 2    | 69.  | Lower Frame (B)          | 1    | 114. | Tail Pitch Bellcrank | 1    | 160. | Decals              | 1    |
| 25.  | Cyclic Lever            | 2    | 70.  | Bevel Gear               | 1    | 115. | Body Post            | 2    | 161. | Main Blades         | 2    |
| 26.  | Cyclic Lever Link       | 2    | 71.  | Gear Spacer              | 1    | 116. | Sub Frame            | 1    | 162. | Lead Weight         | 2    |
| 27.  | Bearing Spacer          | 4    | 72.  | Counter Gear             | 1    | 117. | Servo Mount (B)      | 2    | 163. | Root Spacer Bushing | 2    |
| 28.  | 3 x 6 x 2mm Bearing     | 8    | 73.  | Gear Pin (A)             | 1    | 118. | Front Frame Retainer | 2    | 164. | Root Cover (A)      | 2    |
| 29.  | Pitch Rod               | 2    | 74.  | Tail Coupling            | 1    | 119. | Front Frame          | 1    | 165. | Root Cover (B)      | 2    |
| 30.  | Cyclic Pin              | 2    | 75.  | Coupling Pin             | 1    | 120. | Strut                | 2    | 166. | Blade Covering      | 1    |
| 31.  | Swashplate (A)          | 1    | 76.  | Bevel Gear Support (A)   | 1    | 121. | Skid                 | 2    | 167. | Double Sided Tape   | 1    |
| 32.  | Swashplate (B)          | 1    | 77.  | Bevel Gear Support (B)   | 1    | 122. | Skid Cap             | 1    | 168. | Antenna Tube        | 1    |
| 33.  | Swashplate (C)          | 1    | 78.  | Coupling Bearing         | 1    | 123. | Fuel Tank            | 1    | 173  | Support Struts      | 2    |
| 34.  | Swashplate (D)          | 1    | 79.  | Threaded Insert (L)      | 3    | 124. | Clunk                | 1    | 174. | Strut Ends          | 4    |
| 35.  | Swashplate (E)          | 1    | 80.  | Threaded Insert (S)      | 4    | 125. | Tank Adapter         | 1    | 175. | pitch Gage          | 1    |
| 36.  | Fore/Aft Link           | 2    | 81.  | Threaded Insert (C)      | 1    | 126. | Tank Cap             | 1    |      |                     |      |
| 37.  | Fore/Aft Lever          | 1    | 82.  | Threaded Insert (D)      | 1    | 127. | Cap Washer           | 1    |      |                     |      |
| 38.  | Link Pin (A)            | 2    | 83.  | Starter Cone             | 1    | 128. | Cap Nut              | 1    |      |                     |      |
| 39.  | 8 x 12 x 3.5mm Bushing  | 7    | 84.  | Cooling Fan              | 1    | 129. | Fuel Tubing (L)      | 1    |      |                     |      |
| 40.  | Right/Left Cyclic Lever | 1    | 85.  | Clutch                   | 1    | 130. | Fuel Tubing (S)      | 1    |      |                     |      |
| 41.  | 3 x 6 x 2.5mm Bushing   | 2    | 86.  | Thrust Washer (O.S.)     | 1    | 131. | Horizontal Fin       | 1    |      |                     |      |
| 42.  | Bushing Spacer          | 1    | 87.  | Clutch Bell              | 1    | 132. | Fin Mount (A)        | 1    |      |                     |      |
| 43.  | Collective Lever        | 1    | 88.  | Drive Gear               | 1    | 133. | Fin Mount (B)        | 1    |      |                     |      |
| 44.  | Collective Lever Arm    | 1    | 89.  | Engine Shroud (L)        | 1    | 134. | Vertical Fin         | 1    |      |                     |      |
| 45.  | Collective Arm          | 1    | 90.  | Engine Shroud (R)        | 1    | 135. | Control Rod Guides   | 3    |      |                     |      |

# PURCHASING PARTS FOR YOUR KIT

You can purchase replacement and optional parts for your kit. All of the parts identified by key numbers (see page 42 for a complete list) 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 Main Mast (Key #52) ask your dealer for Kyosho Parts Pack H-6013.

| Stock#   | Part # | Description             | Contents            | Stock#   | Part #  | Description            | Contents            | Stock#   | Part # | Description           | Contents            |
|----------|--------|-------------------------|---------------------|----------|---------|------------------------|---------------------|----------|--------|-----------------------|---------------------|
| KYOE7000 | H-6001 | Main Rotor Head         | 1 2 x 1             | KYOE7135 | H-6028  | Lever Bushing          | 39 x 7              | KYOC2197 | 1901   | 5 x 10 x 4 mm Bearing | 110 x 2             |
| KYOE7005 | H-6002 | Stabilizer Seesaw       | 6 x 1 7 x 2         | KYOE7140 | H-6029  | Pitch Lever Linkage    | 43 44 45 47 48 49   | KYOE7265 | H-6054 | Tail Rotor Grip Set   | 111 112 x 2         |
| KYOE3030 | H-3040 | 8 x 14 x 3.5 mm Bearing | 11 x 2              |          |         |                        |                     | KYOE7270 | H-6055 | Tail Rotor Blade      | 113 x 2             |
| KYOE7010 | H-6003 | Hiller Control Lever    | 8 9 x 1 137 x 2     | KYOE7145 | H-6030  | Aileron Lever Set      | 40 42 x 1 41 x 2    | KYOE7275 | H-6056 | Tail Fin Set          | 131 132 133 134x1   |
| KYOE7015 | H-6004 | Feathering Shaft        | 12 18 x 2 14 x 2    | KYOE7150 | H-6031  | Tempered Pinion Gear   | 70 71 x 1           | KYOE7280 | H-6057 | Servo Frame Set       | 116 119 x 1 117     |
| KYOE7020 | H-6005 | Flapping Damper         | 15 20 x 4           | KYOE7155 | H-6032  | Counter Gear           | 72 73 x 1           |          |        |                       | 118 x 2             |
| KYOE7025 | H-6006 | Flapping Hinge Bushing  | 13 x 4              | KYOE7160 | H-6033  | Pinion Bearing         | 76 77 78 x 1        | KYOE7285 | H-6058 | Servo Linkage Rod     | 145 147 148 149x1   |
| KYOC2218 | BS-16  | 8 x 16 x 5 mm Bearing   | 16 x 2              | KYOE7165 | H-6034  | Tail Drive Coupling    | 74 75 x 1           |          |        |                       | 146 x 2             |
| KYOE7030 | H-6007 | Thrust Bearing Set      | 17 19 x 2           | KYOE7170 | H-6035  | Threaded Insert        | 79 x 3 80x4 81 82x1 | KYOE7290 | H-6059 | Rudder Pushrod Tube   | 150 151 x 1         |
| KYOE7035 | H-6008 | Main Rotor Grip Set     | 21 22 x 2           | KYOE7175 | H-6036  | Transmission Case      | 66 67 x 1           | KYOE7295 | H-6060 | Tail Linkage          | 141 x 1 140 142 x 2 |
| KYOE7040 | H-6009 | Stabilizer Bar          | 5 x 1               | KYOE7180 | H-6037  | Main Frame             | 68 69 x 1           | KYOE7300 | H-6061 | Fuel Tank Set         | 123 124 125 126     |
| KYOE7045 | H-6010 | Stabilizer Weight       | 4 x 2               | KYOE7185 | H-6038  | Drive Gear             | 88 x 1              |          |        |                       | 127 128 129 130x1   |
| KYOE7050 | H-6011 | Stabilizer Blade        | 3 x 2               | KYOE7190 | H-6039A | Clutch O.S.            | 85 86 x 1           | KYOE4020 | H-3055 | Servo holder Plates   | 152 x 10            |
| KYOE7055 | H-6012 | Stabilizer Rod          | 10 x 2              | KYOE7195 | H-6040  | Clutch Bell            | 87 x 1              | KYOE7305 | H-6062 | Switch Mount          | 153 x 1             |
| KYOE7060 | H-6013 | Main Mast               | 52 55 x 1           | KYOE5044 | H-3222  | 12 x 18 x 4 mm Bearing | 58 x 2              | KYOE7310 | H-6063 | Rudder Tube Guides    | 135 x 3             |
| KYOE7065 | H-6014 | Pitch Rod Guide         | 53 x 1              | KYOE7200 | H-6041  | Cooling Fan            | 84 x 1              | KYOE7315 | H-6064 | Landing Gear Brace    | 120 x 2             |
| KYOE7070 | H-6015 | Mast Bearing Set        | 56 63 x 1           | KYOE7205 | H-6042  | Starter Cone           | 83 x 1              | KYOE7320 | H-6065 | Skid Set              | 121 x 2 122 x 4     |
| KYOE7075 | H-6016 | Mast Stopper            | 54 x 1              | KYOE7210 | H-6043  | Fan Casing             | 89 90 x 1           | KYOE7325 | H-6066 | Linkage Ball          | 136 x 10            |
| KYOE7080 | H-6017 | Mixing Base             | 23 x 1 29 x 2       | KYOE7215 | H-6044  | Tail Boom              | 92 x 1              | KYOE5055 | H-3108 | Ball End Set          | 138 x 10            |
| KYOE7085 | H-6018 | Mixing Lever Set        | 24 25 30 x 2 27 x 4 | KYOE7220 | H-6045  | Shaft Guide            | 93 94 x 3           | KYOE7330 | H-6067 | Rod End Set (L)       | 139 x 10            |
| KYOE9400 | FH-21  | 3 x 6 x 2 mm Bearing    | 28 x 2              | KYOE7225 | H-6046  | Tail Drive Shaft       | 91 x 1              | KYOE7335 | H-6068 | Main Blades           | 161 162 163 164     |
| KYOE7090 | H-6019 | Cyclic Lever Link       | 26 x 4              | KYOE7230 | H-6047  | Tail Drive Joint       | 95 x 1              |          |        |                       | 165 x 2 166 x 1     |
| KYOE7095 | H-6020 | Control Rod Set         | 143 144 x 2         | KYOE7235 | H-6048  | Tail Gear Set          | 96 97 102 x 1       | KYOE7340 | H-6069 | Shrink Tube           | 166 x 1             |
| KYOE7100 | H-6021 | Swash Plate             | 31 32 33 34 35 x 1  | KYOE1060 | H-3006  | 5 x 13 x 4 mm Bearing  | 100 x 2             | KYOE4080 | H-3064 | Antenna Pipe          | 168 x 5             |
|          |        |                         | 137 x 8             | KYOE7240 | H-6049  | Tail Output Shaft      | 101 x 1             | KYOE4115 | H-3072 | Double Sided Tape     | 167 x 1             |
| KYOE7105 | H-6022 | Pitch Slider            | 57 59 60 x 1        | KYOE7245 | H-6050  | Tail Gear Case         | 98 99 x 1           | KYOE7345 | H-6070 | Body Set              | 156 x 1 158 x 2     |
| KYOE7110 | H-6023 | Main Gear               | 62 x 1              | KYOE7250 | H-6051  | Tail Pitch Lever Set   | 41 x 2 42 114 x 1   | KYOE7350 | H-6071 | Canopy                | 157 x 1             |
| KYOE7115 | H-6024 | Main Gear Frame         | 61 64 x 1 63 x 2    | KYOE7255 | H-6052  | Tail Slide Ring Set    | 103 104 106 x 1     | KYOE7355 | H-6072 | Body Mount Set        | 115 158 159 x 2     |
| KYOE7120 | H-6025 | Engine Mount            | 65 x 1              |          |         |                        | 107 108 x 2         |          |        |                       | 154 155 x 1         |
| KYOE7125 | H-6026 | Elevator Lever Set      | 37 x 1 38 x 2       | KYOE3110 | H-3048  | 6 x 10 x 3 mm Bearing  | 105 x 2             | KYOE7360 | H-6073 | Decal                 | 160 x 1             |
| KYOE7130 | H-6027 | Elevator Lever Link     | 36 x 4              | KYOE7260 | H-6053  | Tail Center Hub        | 109 x 1             | KYOE7365 | H-6074 | Boom Supports         | 173 x 2 174 x 4     |