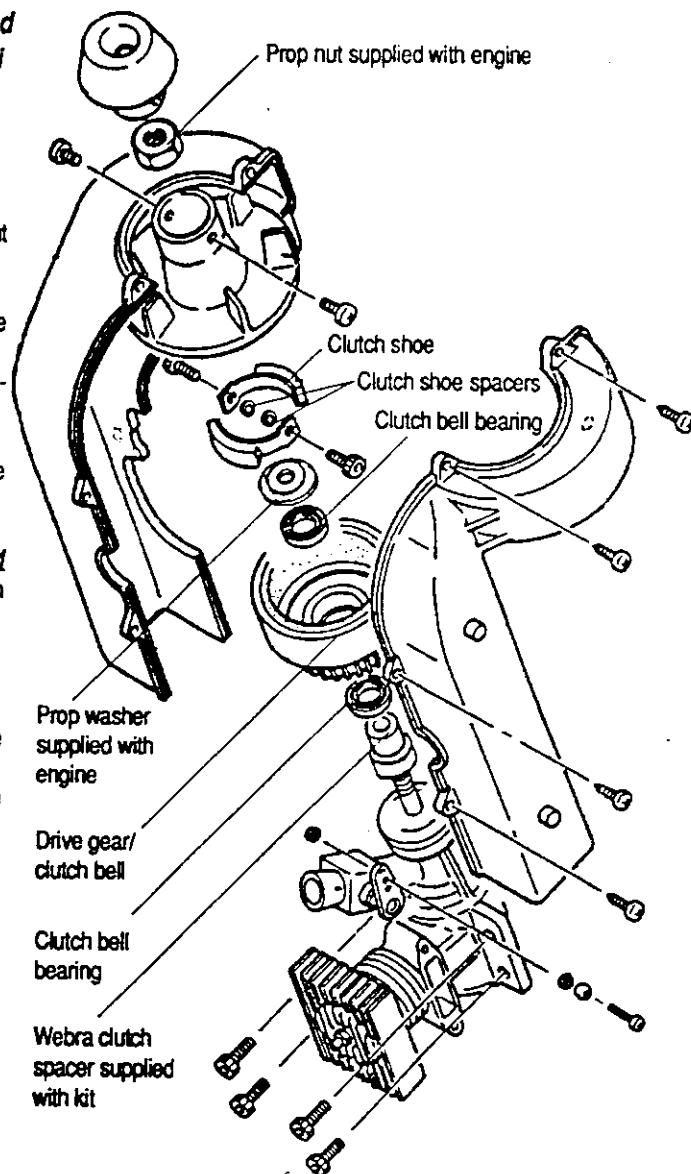


Important Additional Notes for ARTF and Kit Space Baron

Important - These instructions supercede those detailed in section 2-4.1 if you are using the Webra 28 ABC Heli

2-4.1 Fitting the Webra 28 ABC Heli

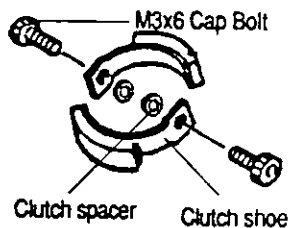
- 1. Remove the propeller driver from the engine to expose the front ball bearing. The prop driver is not required.
 - 2. Install the Webra clutch spacer onto the engine crankshaft.
 - 3. Press a drive gear bearing into each side of the clutch bell/drive gear, and install onto the Webra clutch spacer.
 - 4. Install the prop washer supplied with the engine over the crankshaft.
 - 5. Screw the cooling fan firmly onto the crank.
 - 6. Install a clutch shoe onto an M3x6 cap bolt, and pass a clutch shoe spacer over the end of the M3x6 cap bolt. See diagram.
- ▲ Please note that the clutch shoe spacer lies between the fan and the clutch shoe, -not between the M3x6 cap screw and the clutch shoe as per the original version of the manual.
- 7. Screw this assembly onto the fan.
 - 8. Repeat step 6 and 7 for the other clutch shoe.
 - 9. Tighten the fan securely using the prop nut supplied with the engine.
 - 10. Return to step 6 of -2-4.1 Assembling Engine Section- of the original manual.



2-4.1 Assembling Engine

Important ! This step (4.) replaces that shown in the manual and applies to all engines used in Space Baron

- 4. Install a clutch shoe onto an M3x6 cap bolt, and pass a clutch shoe spacer over the end of the M3x6 cap bolt. See diagram. Then install onto cooling fan.
- ▲ Please note that the clutch shoe spacer lies between the fan and the clutch shoe, -not between the M3x6 cap screw and the clutch shoe as per the original version of the manual.



Lubrication of Tail Drive Components

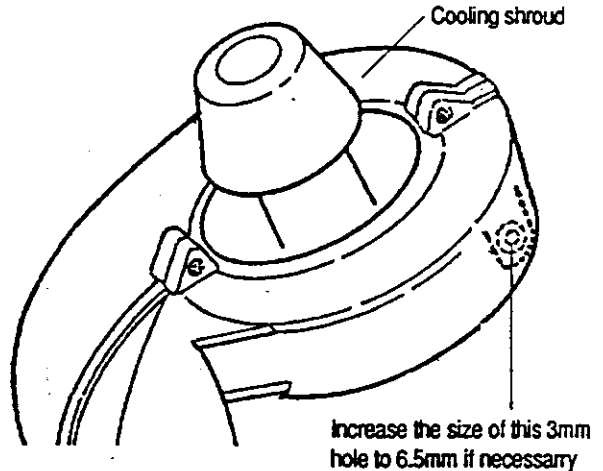
- 1. Before assembling the tail boom onto the helicopter; either squirt some high quality teflon based lubricant (such as JP XL15) down the tail boom to lubricate the 3 boom bearings and the tail input gear ball bearing. Or alternatively use standard automotive grease.
- 2. Either apply some high quality teflon based lubricant (such as JP XL15) into the transmission case tail bevel drive gear bearings. Or alternatively use standard automotive grease. See page 8 and 19.
- 3. Apply a thin film of grease to the main drive gear.

Important Post-Assembly Reminder

- 1. Remember before flying Space Baron to go over all the bolts and screws and make sure that all are tight and secure. This is the responsibility of the pilot!

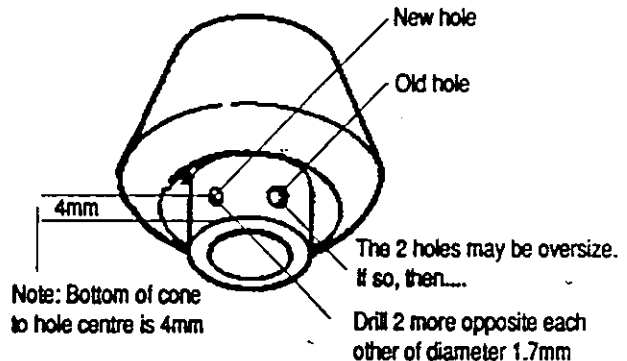
Cooling fan shroud adjustment

- 1. You may need to increase the diameter of the shroud locating hole to 6.5mm when fitting some engines. Do this if you are fitting the Webra 28 ABC Heli. See diagram.



Starter Cone

- 1. The 2 drilled holes in the starter cone may be drilled oversize. The correct size is 1.7mm. If they are incorrect, then drill a new pair of holes of 1.7mm diameter diametrically opposite each other, making sure that the new holes are at the same height (4mm measuring from the bottom edge of the cone) as the old holes.



1-6.1 Installation of Rotor Head

- 1. Do not use the standard M3x20 cap bolts (in bag No. 1-6). Use 2 M3x20 shanked steel bolts in place of these to attach the blades to the rotor head. See diagram.

M3x20 standard Cap bolt



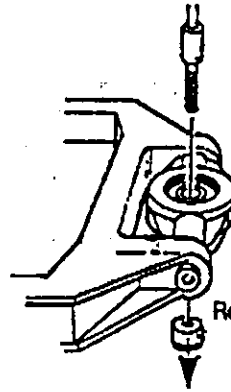
M3x20 shanked Cap bolt



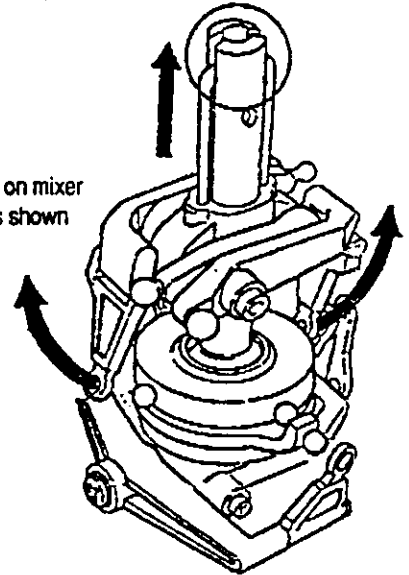
Collective Pitch Rod Adjustment

It may be necessary to adjust the ends of the collective pitch rods in order to achieve perfect smooth movement of the collective pitch system. Proceed as follows:

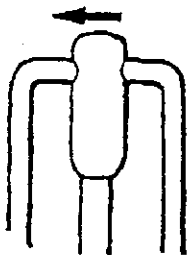
1. Remove M3 nyloc nut retaining the collective pitch rod.
2. Take off the links on the mixing unit and remove it as per the diagram.
3. Push the top centre post of the pitch rod to the left.
4. Turn the rod through 180°.
5. File about 0.5mm off the rod.
6. File about 0.5mm off the other rod.
7. Re-assemble the unit.



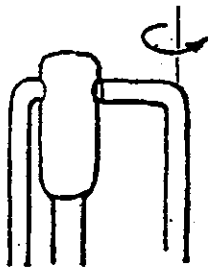
Remove links on mixer and pull up as shown



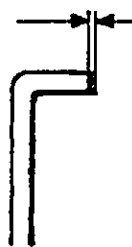
1/ Push top of pitch rod to the left



2/ Rotate 180°



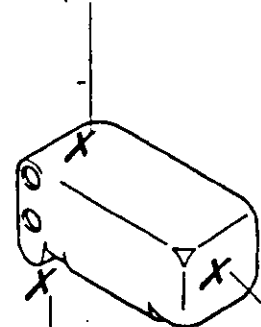
3/ File about 0.5mm off



2-6 Removing the Fuel Tank

1. To remove the tank from the frames (the tank is designed to be a tight fit for safety reasons); first of all compress the top half of the tank on the outlet side.
2. Keeping the upper half of the tank compressed, firmly push the tank sideways whilst pushing up on the bottom of the outlet side of the tank. The tank will slide out of the frames.

1/ Compress the top of the tank here



2/ Push up underneath the tank here

3/ Push the tank out from here