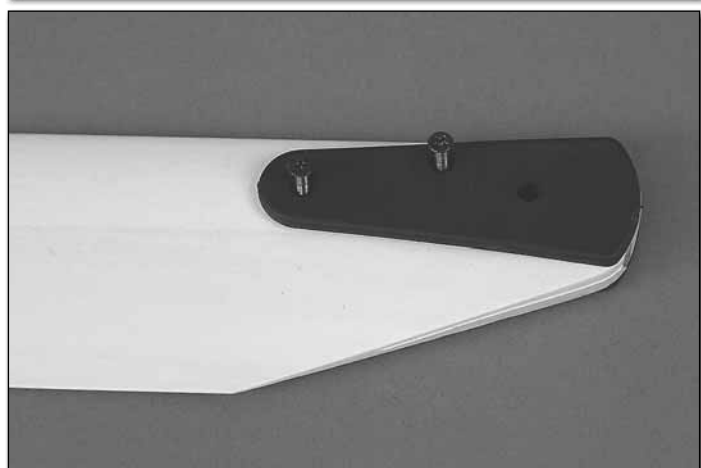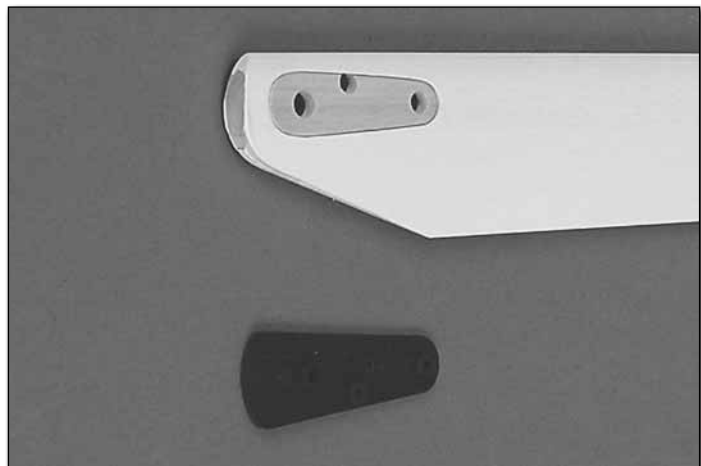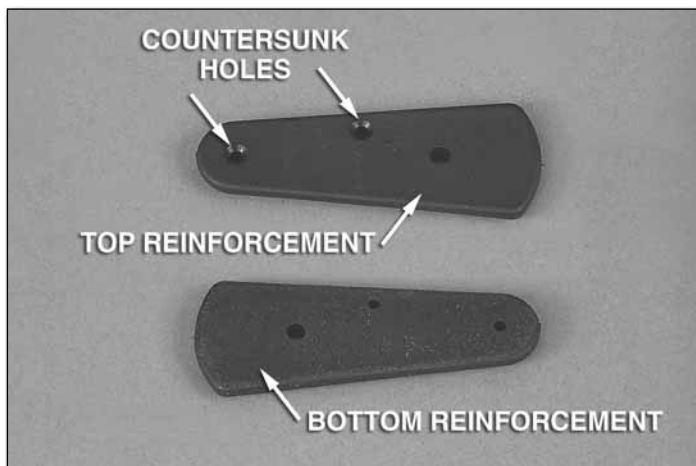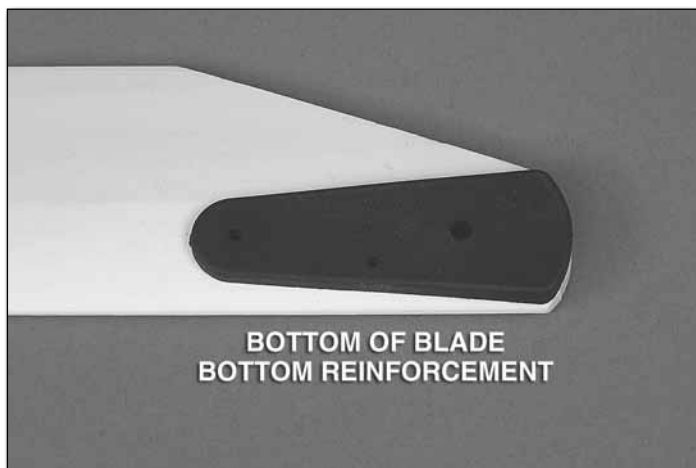# Heli-Max™

600mm MAIN ROTOR BLADES
INSTRUCTIONS

Warning: *The blade root reinforcements **must be glued to the main blades**. Please inspect the blades for damage before assembling them. Do not exceed 1700 RPM with the wood blades or failure may occur. Blades are considered consumable items and should be discarded if there is any sign of damage.*

COUNTERSUNK HOLES

TOP REINFORCEMENT

BOTTOM REINFORCEMENT

TOP OF BLADE
TOP REINFORCEMENT

❏ 1. Position the blade as shown above and test fit the top reinforcement on the blade.

BOTTOM OF BLADE
BOTTOM REINFORCEMENT

❏ 2. Turn over the blade and test fit the bottom reinforcement.

❏ 3. Once you have verified everything fits properly, mix up some 30-minute epoxy and apply it to the exposed wood on the root of the blade. Install the top and bottom reinforcements as shown above. Double check your work to verify the reinforcements are installed properly. Install and tighten the two 2.6mm screws into the reinforcements as shown.
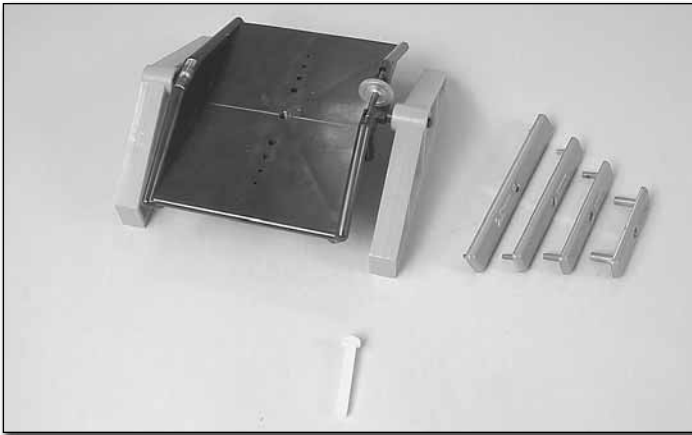
❏ 4. Use a paper towel dampened with isopropyl alcohol to remove the excess glue from the blade. Before the epoxy sets, install the blades into the grips to clamp the reinforcements down onto the blade. Once the epoxy has set, you can proceed to use the blades.
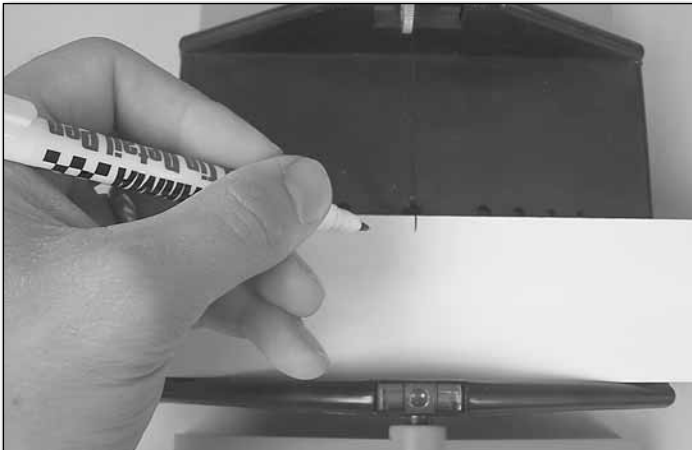
BLADE BALANCING

Note: *All main blades must be balanced before use. We recommend using the Heli-Max Blade Balancer (HMXR4855).*
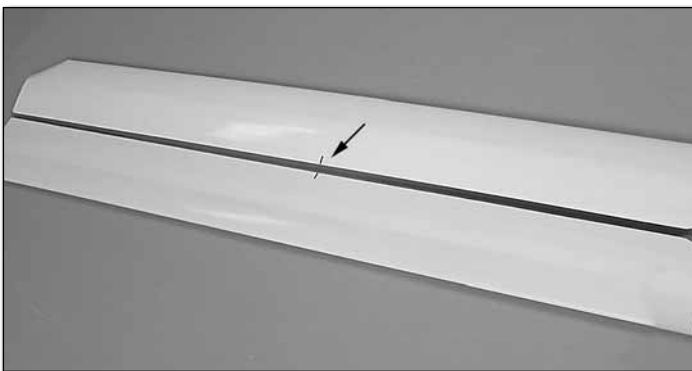
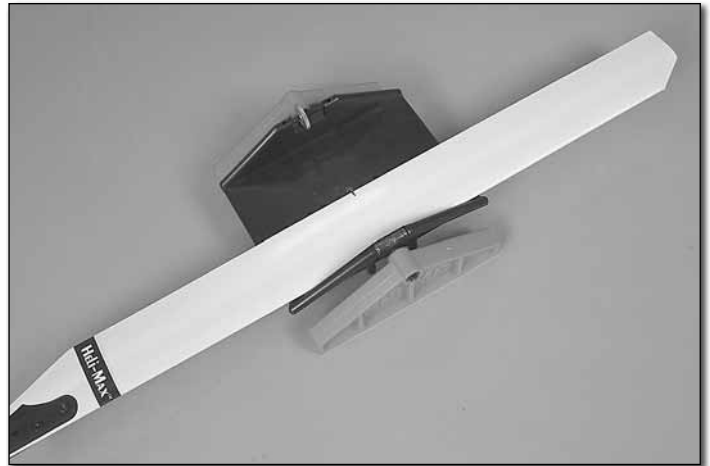❏ 1. Apply the two colored stripe decals to the tips of your main rotor blades (for use in blade tracking later on).

❏ 2. Prepare the balancer for use by rotating the brass adjustment dial until the bubble in the vial indicates level. Make sure that the blade balancer does not move during this process.
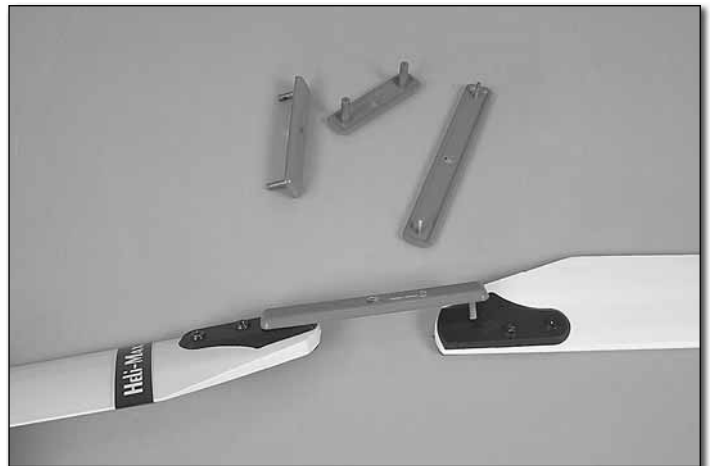
❏ 3. Place one blade onto the balancer with the leading edge against the side with the level. Shift the blade on the balancer until the bubble indicates level. The middle of the black balancing tray is now at the C.G. of this blade. Mark this position on the blade with a felt tip pen.
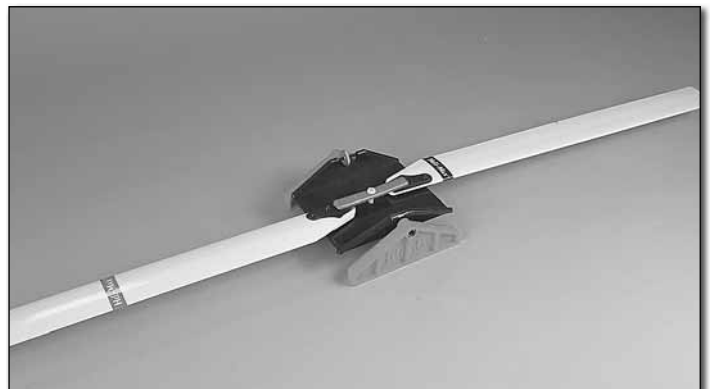
❏ 4. Line up the ends of both blades. Transfer the mark you made on the first blade to the second blade.

❏ 5. Position the second blade on the tray, with the mark at the center. Add balancing or electrical tape to the lighter end until the bubble indicates that both sides are level. The C.G. of both blades is now matched. If the tape ends overlap, make sure the overlapping end points to the trailing edge of the blade.

❏ 6. Your Heli-Max Blade Balancer includes four sizes of blade mounting plates and a nylon mounting bolt. Select the mounting plate that best fits the holes in the blade grips. Secure the mounting plate and two blades to the balancer with the nylon mounting bolt.

❏ 7. Add tape to the C.G. of the lighter blade until the bubble level indicates that the two blades balance. Using a different tape color in this step will remind you that future adjustments will require both balancing steps.