

THANK YOU FOR ORDERING THE BUZZ MASTER PROP BALANCER. AS A THANK YOU GESTURE FOR FAVORING MY PRODUCT, I WILL TRY TO KEEP THE INSTRUCTIONS AS SIMPLE AS POSSIBLE.

FIRST, I WOULD LIKE TO GIVE YOU A LITTLE INFORMATION ABOUT THE BUZZ MASTER UNIT. THE UNIT IS OF THE STRING TYPE AND THEREFORE HAS THE SENSITIVITY TO BALANCE YOUR PROPELLER FAR BEYOND WHAT IS NEEDED FOR SMOOTH RUNNING OPERATIONS. THE PIVOT IS AS CLOSE TO "DEAD CENTER" AS WE CAN PUT IT AND HAS BEEN TESTED AT THE SHOP FOR ACCURACY. YOU CAN RECHECK YOUR UNIT YOURSELF AT ANY TIME BY LEVELING YOUR PROP AND THEN ROTATING THE SLUG 180 DEGREES. WHEN DOING THIS YOU SHOULD GET THE SAME READING AS BEFORE. YOU WILL ALSO FIND THAT THE BUBBLE LEVEL IS VERY SENSITIVE AND SMALL AMOUNTS OF WEIGHT MOVE THE BUBBLE A LONG WAY. THIS GIVES YOU THE ABILITY TO FINE TUNE YOUR PROP TO THE POINT WHERE YOU HEAR A FINE "BUZZ" WHEN AT CRUISE R.P.M. IF YOU EVER LOSE THIS BUZZ YOU WILL KNOW IT AND YOU SHOULD THEN REBALANCE.

STEP ONE: FIND A PLACE WHERE YOU CAN HANG YOUR BALANCER AND PROPELLER THAT IS FREE FROM DRAFTS. THIS SHOULD BE A SPOT WHERE YOU CAN SIT DOWN AND ENJOY THE JOB YOU ARE ABOUT TO DO. A NAIL IN A BASEMENT CEILING BEAM OR A WIRE HANGING FROM A GARAGE BEAM WORKS WELL.

STEP TWO: SET UP THE BUZZ MASTER BALANCER AND YOUR PROP AS ILLUSTRATED. IF YOU HAVE HARDWARE CONNECTED TO THE PROP SUCH AS IN THE QUICKSILVER OR THE EAGLE TYPE PROP IT IS NOT NECESSARY TO REMOVE THE HARDWARE. WHEN INSERTING THE SLUG MAKE SURE THE LINE ON TOP OF THE SLUG IS POINTED THE SAME WAY AS THE BUBBLE LEVEL. IF THE HOLE IN YOUR PROP IS THE STANDARD ONE INCH IT SHOULD FIT SNUGLY AND MOVE THROUGH THE HOLE WITH A LITTLE RESISTANCE. THE LEVEL ACTUALLY HOLDS UP THE PROPELLER AND THE SLUG IS THEN FREE TO MOVE UP AND DOWN ON THE STRING TO THE PIVOT POINT. YOUR PIVOT POINT WILL BE AT A DIFFERENT HEIGHT FOR THE DIFFERENT PROP AND HARDWARE COMBINATIONS. DO NOT ADJUST THE PIVOT POINT SO LOW THAT THE UNIT BECOMES OVER SENSITIVE AS IT WILL DRIVE YOU CRAZY CHASING THE BALANCE BACK AND FORTH. WHEN MOVING THE SLUG UP OR DOWN IN THE HOLE, TAKE CARE NOT TO DAMAGE THE GLASSY AREA WHERE THE STRING LEAVES THE SLUG. THIS AREA IS THE PRECISION CENTER OF YOUR BALANCER AND SHOULD NOT BE DAMAGED. ONCE YOU SET IT FOR YOUR PROP IT MUST BE LEFT THERE.

STEP THREE: WHEN BALANCING YOUR PROP YOU HAVE A CHOICE OF TAKING OFF WEIGHT FROM THE HEAVY END OR ADDING WEIGHT TO THE LIGHT END. IF YOU CHOOSE THE TAKING OFF WEIGHT METHOD, USE A FINE FILE AND TAKE OFF EVENLY FROM THE END OF THE TIP UNTIL BALANCED. COVER THE BARE WOOD WHEN YOU ARE DONE WITH FIVE MINUTE EPOXY FOUND IN ANY HARDWARE STORE. IF YOU PREFER TO ADD WEIGHT TO THE LIGHT TIP, FIRST ROUGH UP THE TIP WITH FINE SANDPAPER TO INSURE BONDING AND APPLY THE EPOXY UNTIL BALANCED. YOU CAN THEN RUB OUT THE HIGH SPOTS WITH THE SANDPAPER IF NECESSARY. WHEN APPLYING THE EPOXY BE SURE TO ALLOW FOR WEIGHT REDUCTION DURING EVAPORATION. INCIDENTALLY, THIS IS A GOOD TIME TO PATCH UP ANY SMALL NICKS IN THE PROPS' COATING. AFTER BALANCING YOUR PROP LENGTHWISE YOU MAY ALSO CHOOSE TO BALANCE THE HUB. TO DO SO, TURN YOUR SLUG AND LEVEL SIDEWAYS AND PROCEED AS BEFORE. BE SURE NOT TO PUT THE EPOXY ON THE HUB FACE SURFACE AS YOU CAN CHANGE THE TRACK OF THE PROPELLER. SOME MANUFACTURERS DO NOT BALANCE IN THIS DIRECTION AS THE VIBRATION PRODUCED WITH THE WEIGHT SO CLOSE TO THE CENTER WOULD BE MINIMAL. I PERSONALLY PREFER TO BALANCE MY PROP IN BOTH DIRECTIONS. AS I CANNOT ACHIEVE THE BALANCED "BUZZ" MENTIONED EARLIER WITHOUT PERFECT BALANCE.

