

**HUMMER & BARNSTORMER
WING SERVO MOUNT HOUSING
BUILD MANUAL**

PREFACE

THANK YOU FOR PURCHASING YOUR NEW WILLYNILLIES.COM WING SERVO MOUNT HOUSINGS. THESE HOUSINGS WERE SPECIFICALLY DESIGNED TO BE USED WITH EMAX ES9251 SERVOS, AVAILABLE FOR PURCHASE AT WILLYNILLIES.COM. THE HOUSINGS ARE QUICK AND EASY TO PREPARE FOR USE, TO INSTALL AND TO REMOVE FOR SERVO REPLACEMENT.

TWO VERSIONS WILL BE AVAILABLE, CLEAR AND OPAQUE WHITE. WHITE CAN BE PAINTED TO MATCH WING COVERING. CLEAR CAN BE DYED TO MATCH TRANSPARENT WING COVERING OR LEFT AS IS.

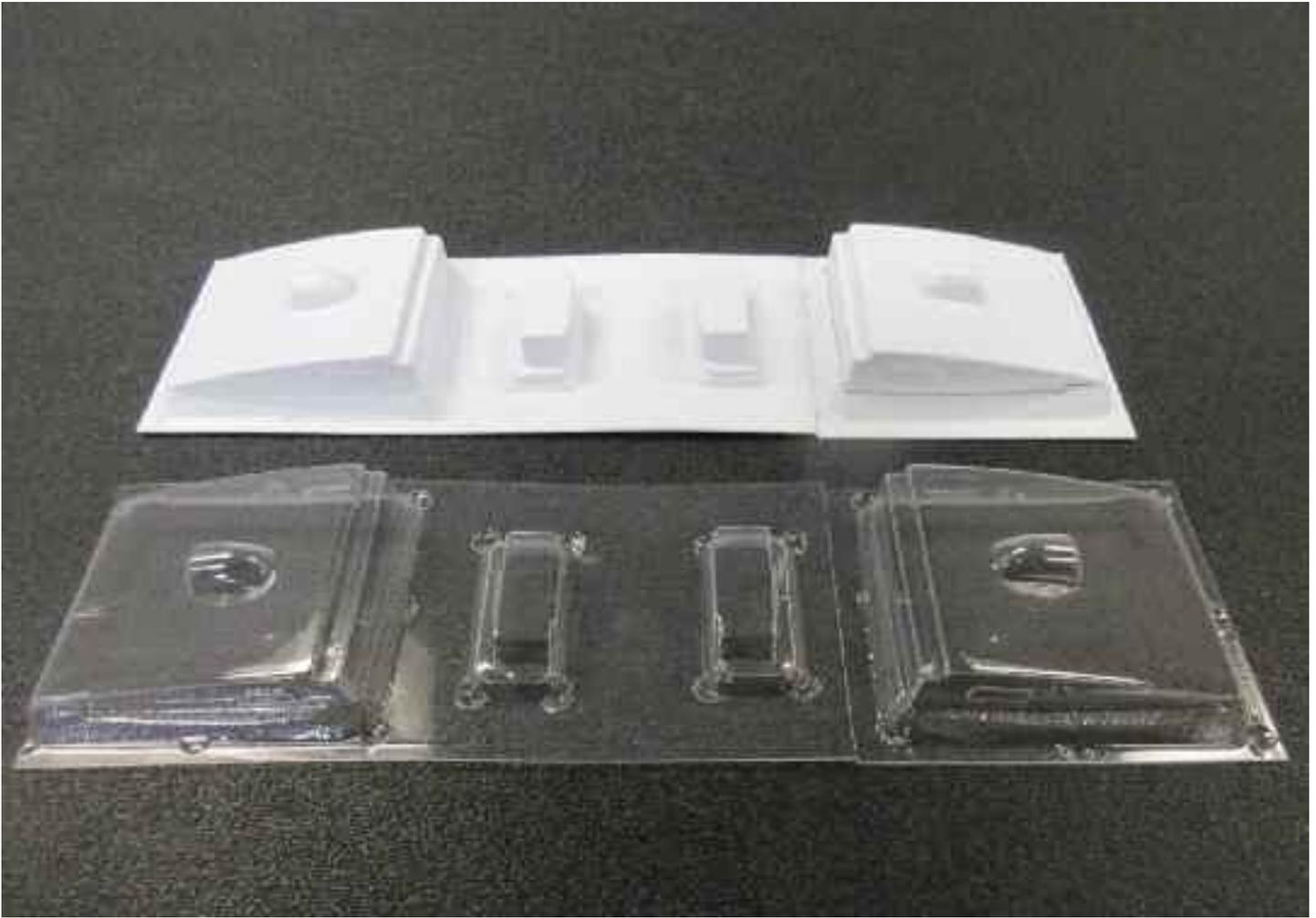
READ THROUGH THIS MANUAL, TAKE YOUR TIME, AND YOU WILL HAVE AN ENJOYABLE BUILD, A BEAUTIFUL FINAL PRODUCT, AND A SUPER SIMPLE NEW WAY TO MOUNT SERVOS USING YOUR NEW WILLYNILLIES.COM WING SERVO MOUNT HOUSINGS.

BE SURE TO LOOK FOR OUR OTHER ACCESSORIES, AND PLEASE GIVE US YOUR FEEDBACK AT WILLYNILLIES.COM.



REQUIRED SUPPLIES

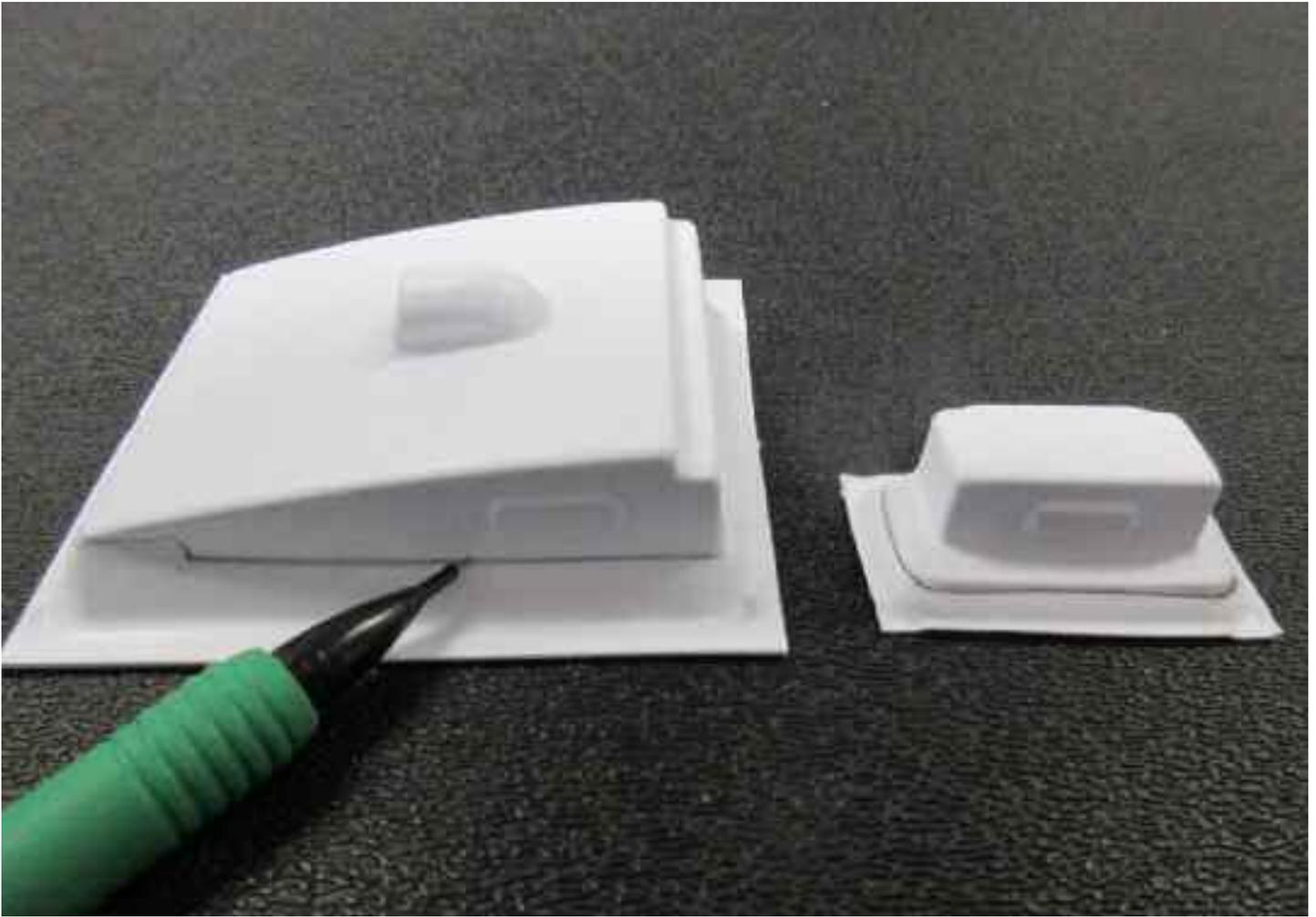
- MEDIUM CA
- HOBBY KNIFE
- PENCIL
- 400 WET/DRY SAND PAPER
- ROTARY TOOL AND ACCESSORIES
- PLIERS



CONTENTS OF KIT

(CLEAR OR WHITE)

- (1) LEFT SIDE WING SERVO MOUNT HOUSING**
- (1) RIGHT SIDE WING SERVO MOUNT HOUSING**
- (2) SERVO MOUNTS**



MARK VISUAL PARTING LINE IN GROOVE
AROUND ENTIRE PART WITH PENCIL.



USING A NEW BLADE, MAKE A LIGHT
‘SCORE’ CUT ON PENCIL LINE.
FOLLOW WITH SECOND CUT TO REMOVE
PART FROM BASE. THIS WILL PREVENT
RUN AWAY CUTS AS IS COMMON WITH
POLY STYRENE.



1. ATTACH FULL SHEET OF 400 WET/DRY SANDPAPER TO FLAT SURFACE.
2. WET SAND WITH LIGHT PRESSURE AND LONG STROKES.
3. CHECK OFTEN TO ENSURE EVEN REMOVAL.



WET SAND MOUNTING FLANGE TO A FLAT EVEN SURFACE.



WET SAND PROTRUSION OFF FOR SERVO WIRE EXIT.



WET SAND PROTRUSION OFF FOR SERVO OPENING.



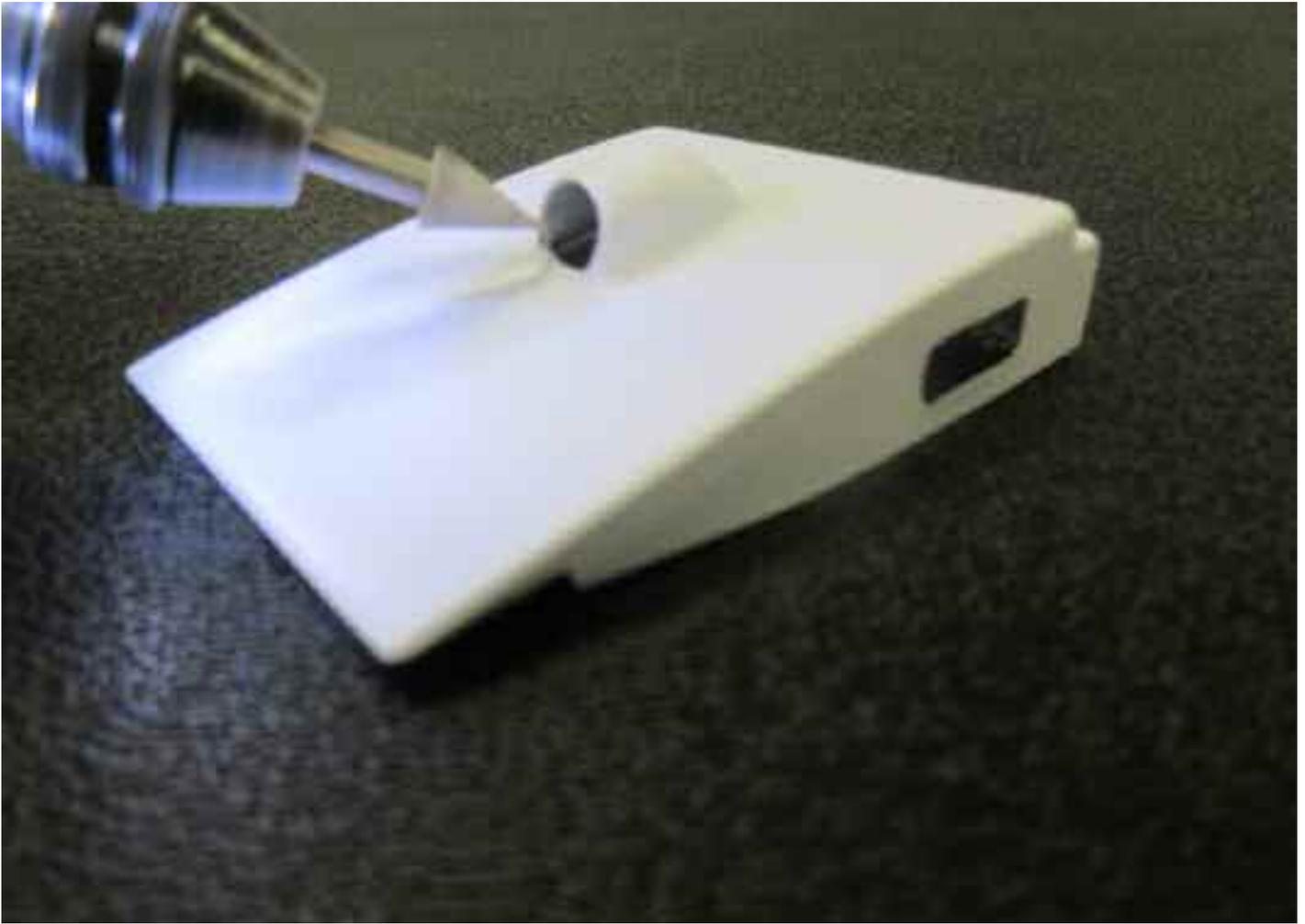
WET SAND HOUSING EDGES TO A SMOOTH UNIFORM FINISH.



WET SAND PROTRUSION OFF FOR SERVO WIRE EXIT
ON EACH SIDE. HOUSING WILL FIT RIGHT OR LEFT WING.



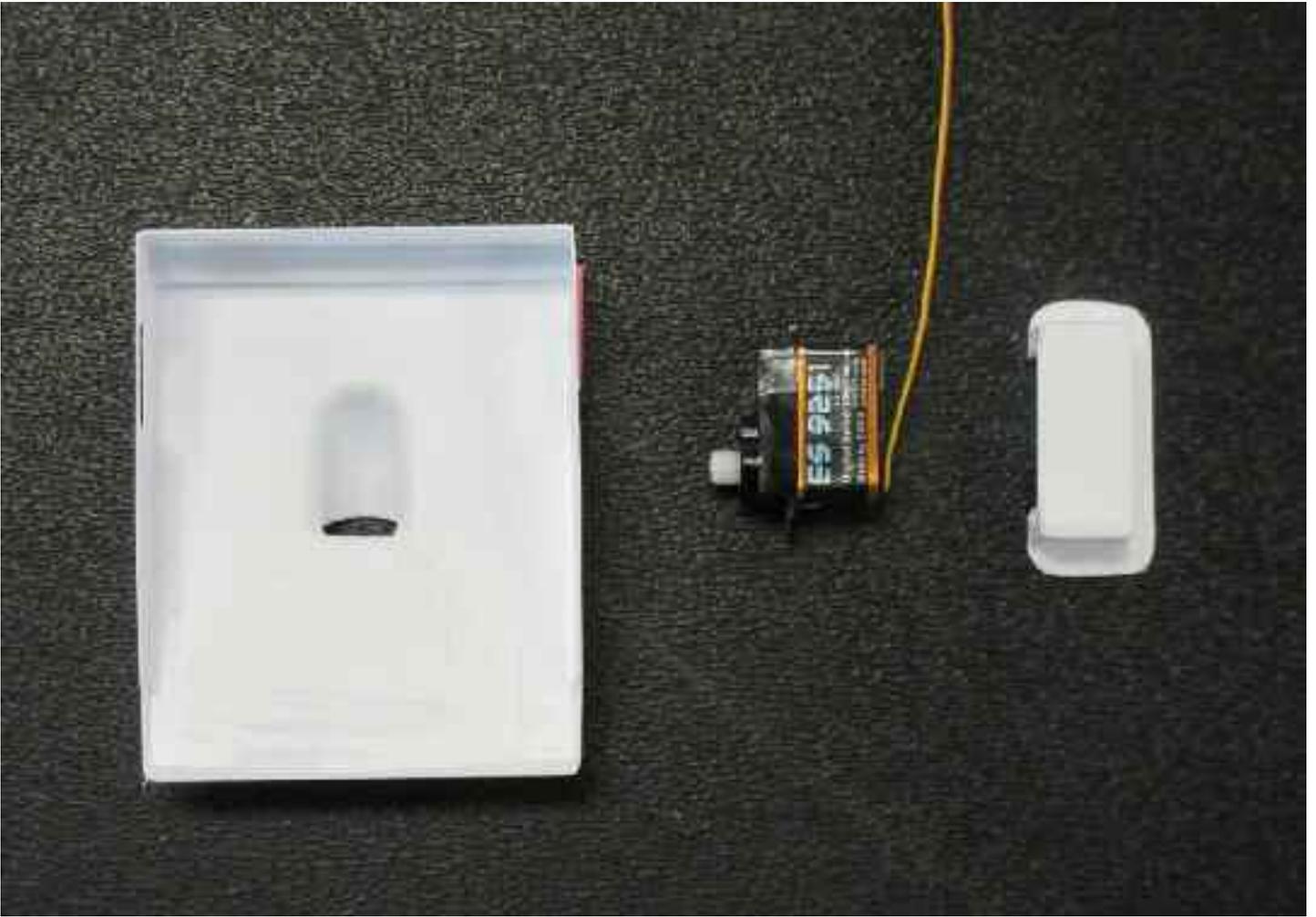
WET SAND FRONT OF HOUSING TO FIT BETWEEN
UPPER AND LOWER SPARS. DO NOT FORCE FIT.
DO NOT OVER SAND. THE HOUSING SHOULD NOT BE LOOSE.
WET SAND NOTCHES AT TRAILING EDGE TO FIT FLUSH AND
FOLLOW AIRFOIL ON SIDES.



OPEN CONTROL ROD EXIT WITH ROTARY TOOL.



FINISH DETAILS WITH NEEDLE FILES.



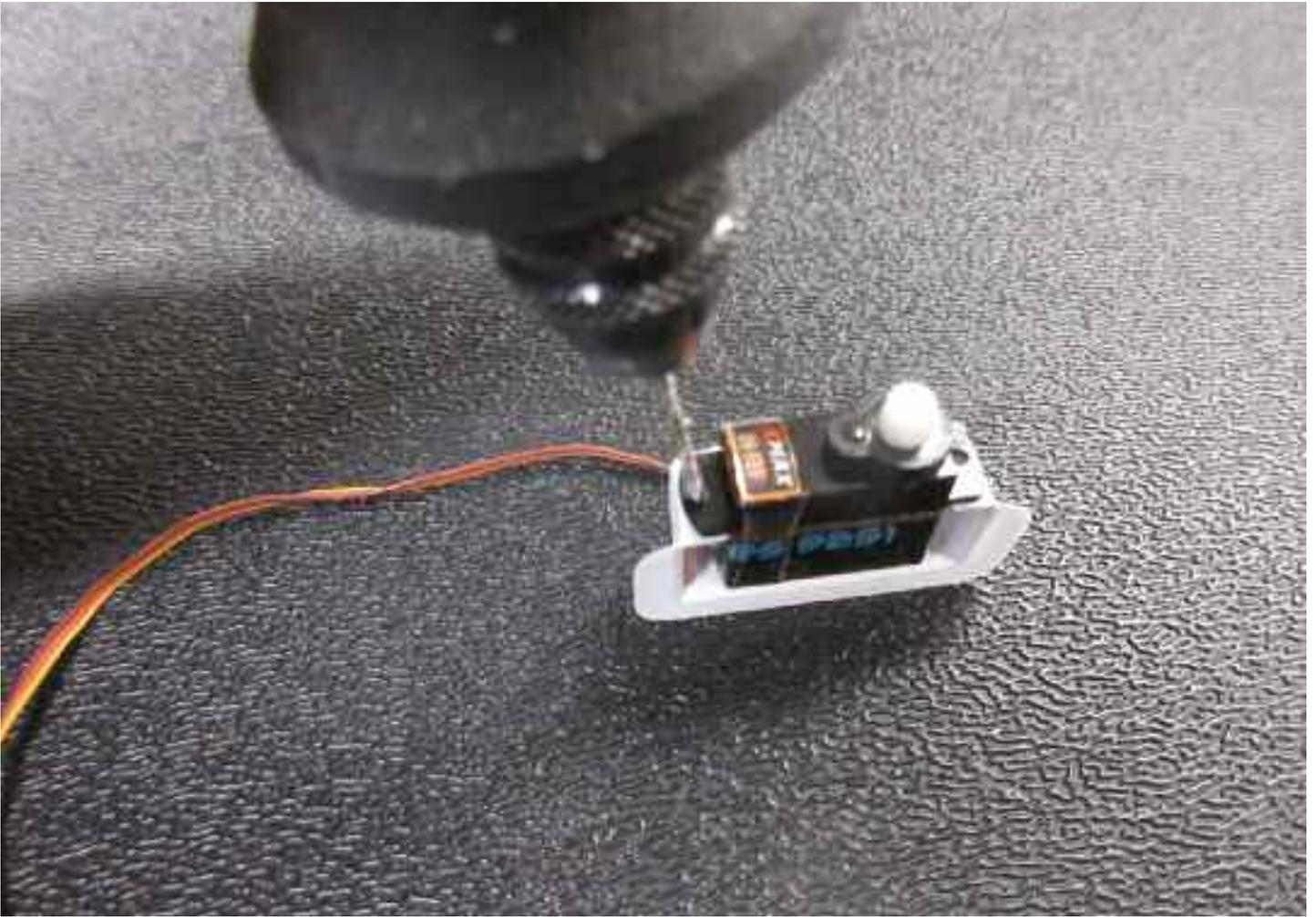
PROPER ORIENTATION FOR RIGHT WING.
LEFT WING WILL BE A MIRROR IMAGE.



FLATTEN SERVO WIRES TO EXIT BOTTOM OF MOUNT.



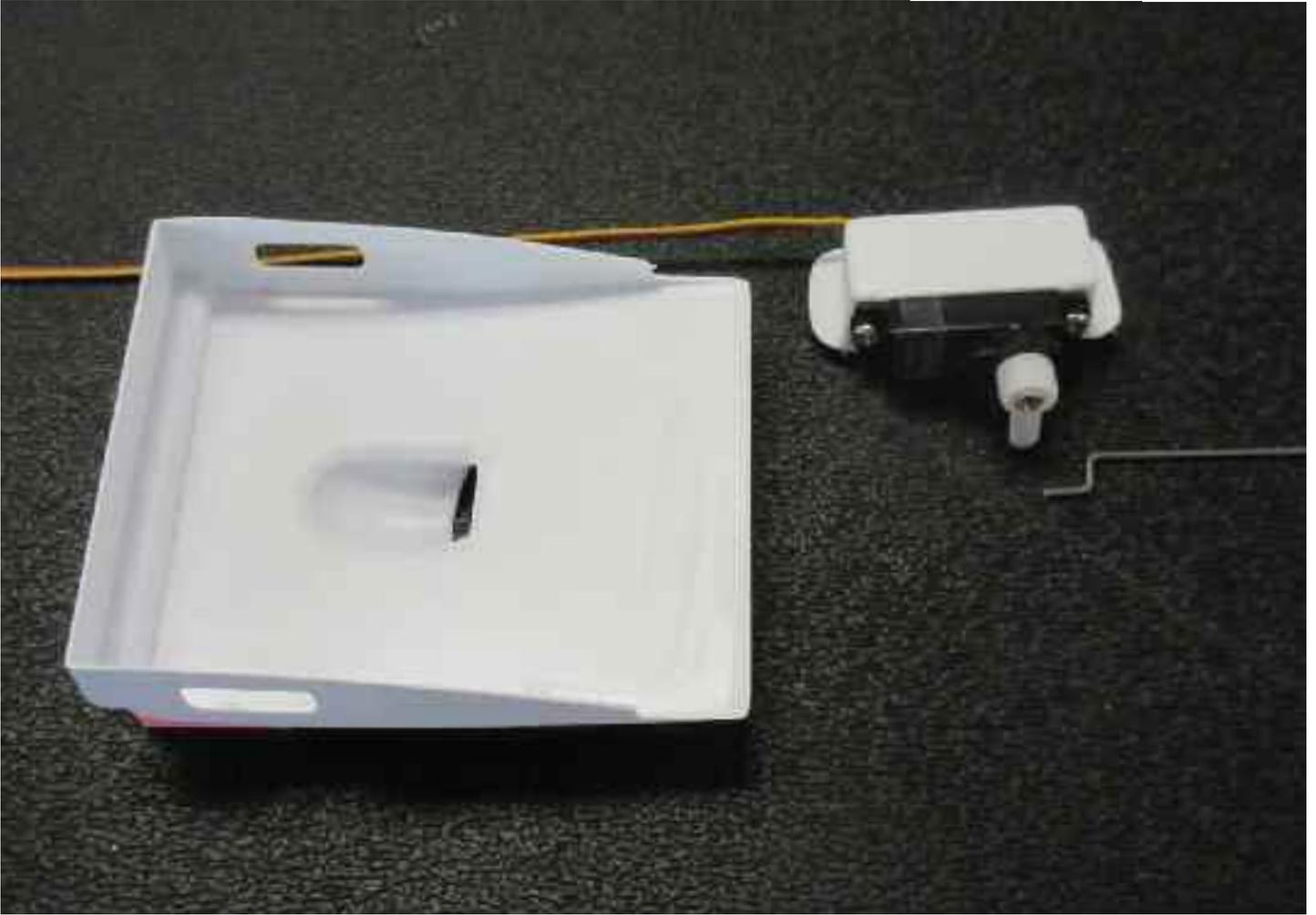
ROUTE SERVO WIRE THROUGH BOTTOM EXIT.



USE A 3/64" DRILL BIT ON LOW SPEED TO OPEN PILOT HOLES FOR SERVO MOUNTING SCREWS. INSTALL SCREWS. DO NOT OVER TIGHTEN.



PREPARE SERVO CONTROL HORN. REMOVE OUTER PORTION, ROUND OVER AND OPEN CONTROL ROD HOLE TO PUSH ROD WIRE SIZE.



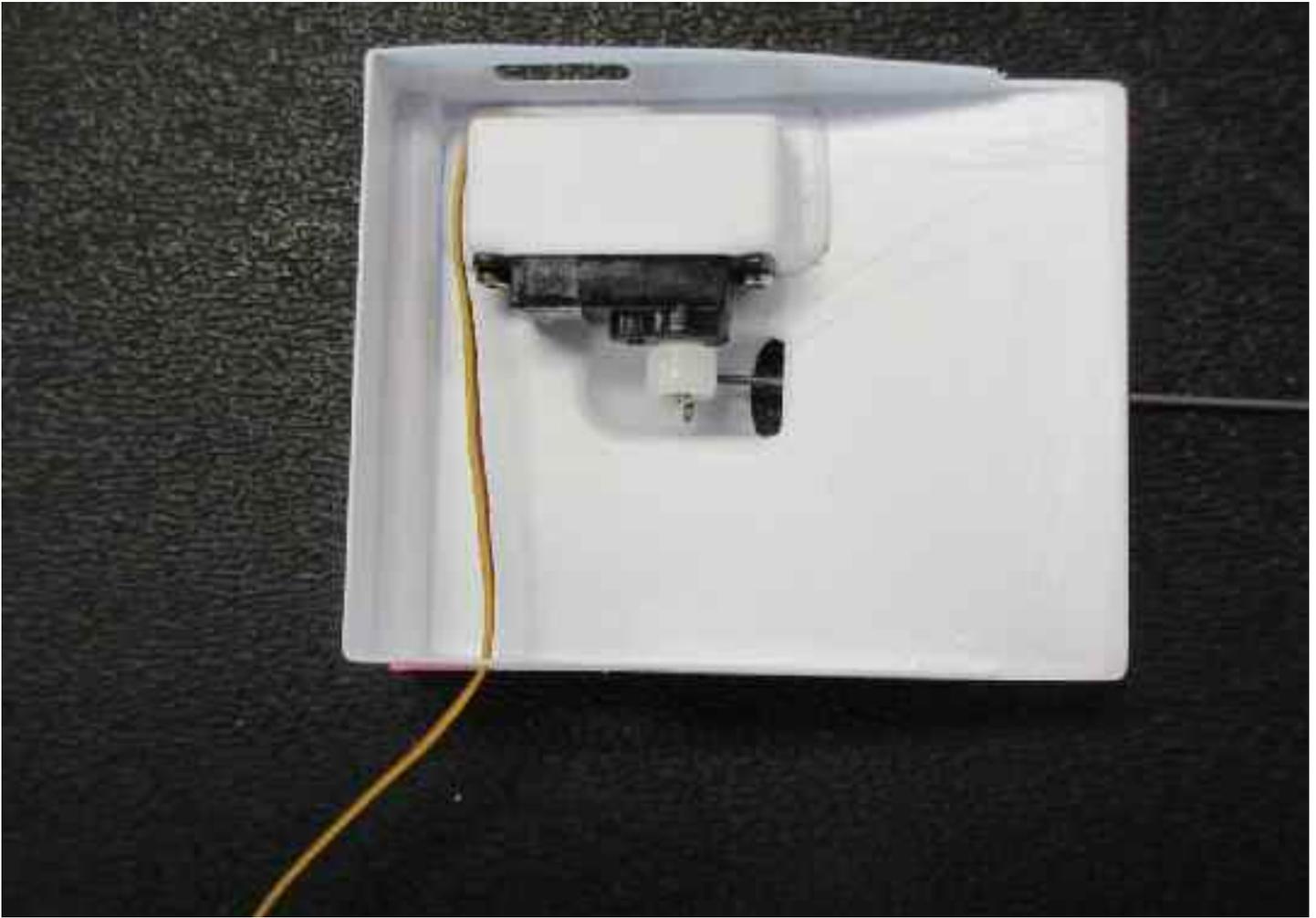
INSTALL SERVO CONTROL HORN. NOTE ORIENTATION OF ALL PARTS. THIS IS FOR RIGHT HAND WING PANEL. MIRROR FOR LEFT HAND WING PANEL.



LOCATE AILERON CONTROL RODS SUPPLIED IN
WILLYNILLIES.COM AIRPLANE KIT.
RIGHT HAND CONTROL ROD SHOWN.
BEND OUTERMOST LEG OF CONTROL ROD
UP TO FORM 90° ANGLE. RIGHT AND LEFT
CONTROL RODS SHOULD BE A MIRROR IMAGE.



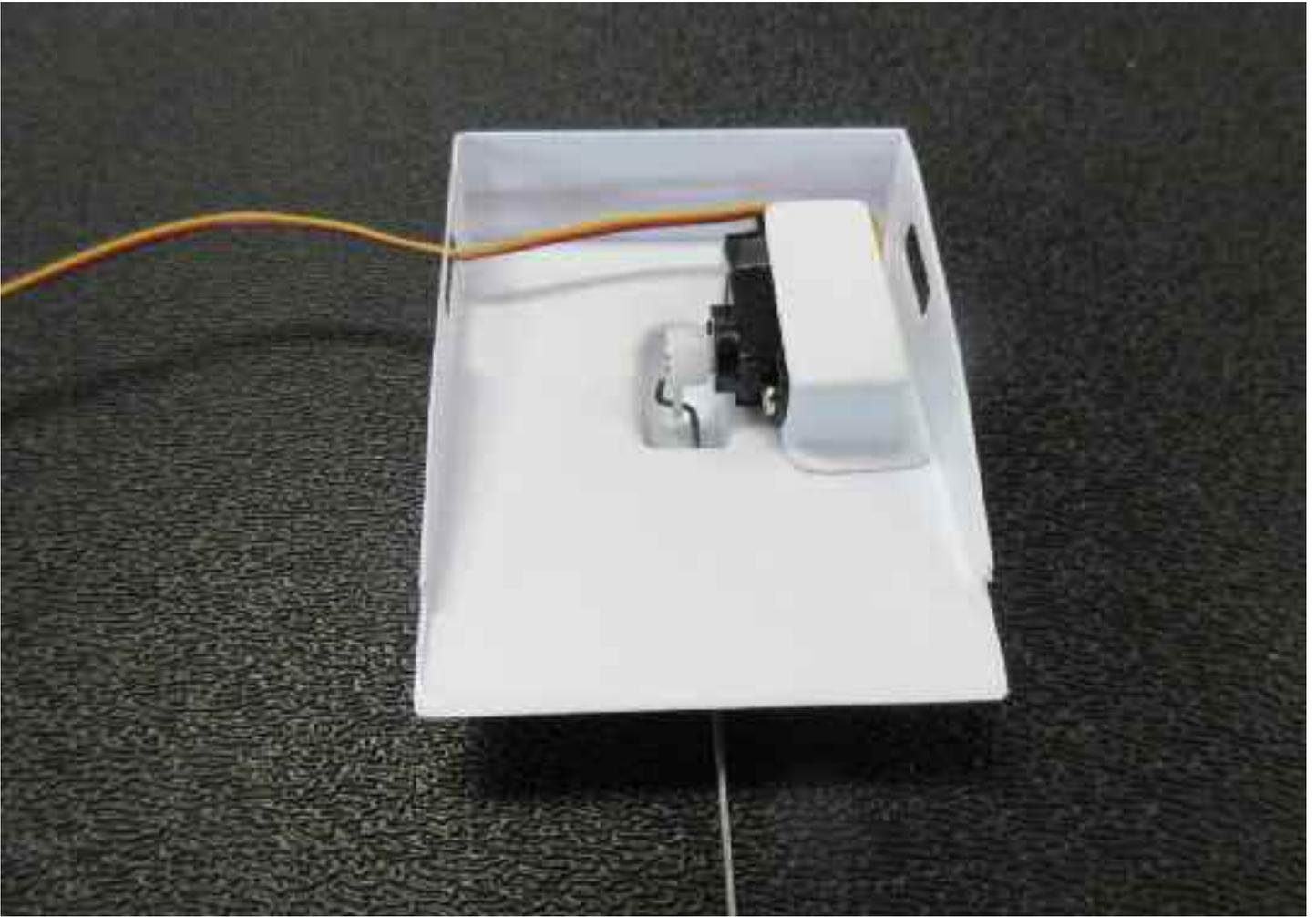
CONTROL ROD BENT AND INSTALLED FOR
RIGHT HAND WING PANEL APPLICATION.
MIRROR FOR LEFT HAND WING PANEL.
THIS UPWARD BEND WILL AID IN INSTALLATION
AND REMOVAL OF ASSEMBLED WING SERVO HOUSING.



SERVO MOUNT FLANGE WILL PROPERLY
LOCATE SERVO IN HOUSING. SERVO MOUNT FLANGE
SHOULD BE AGAINST OUTER AND FOREMOST EDGES.



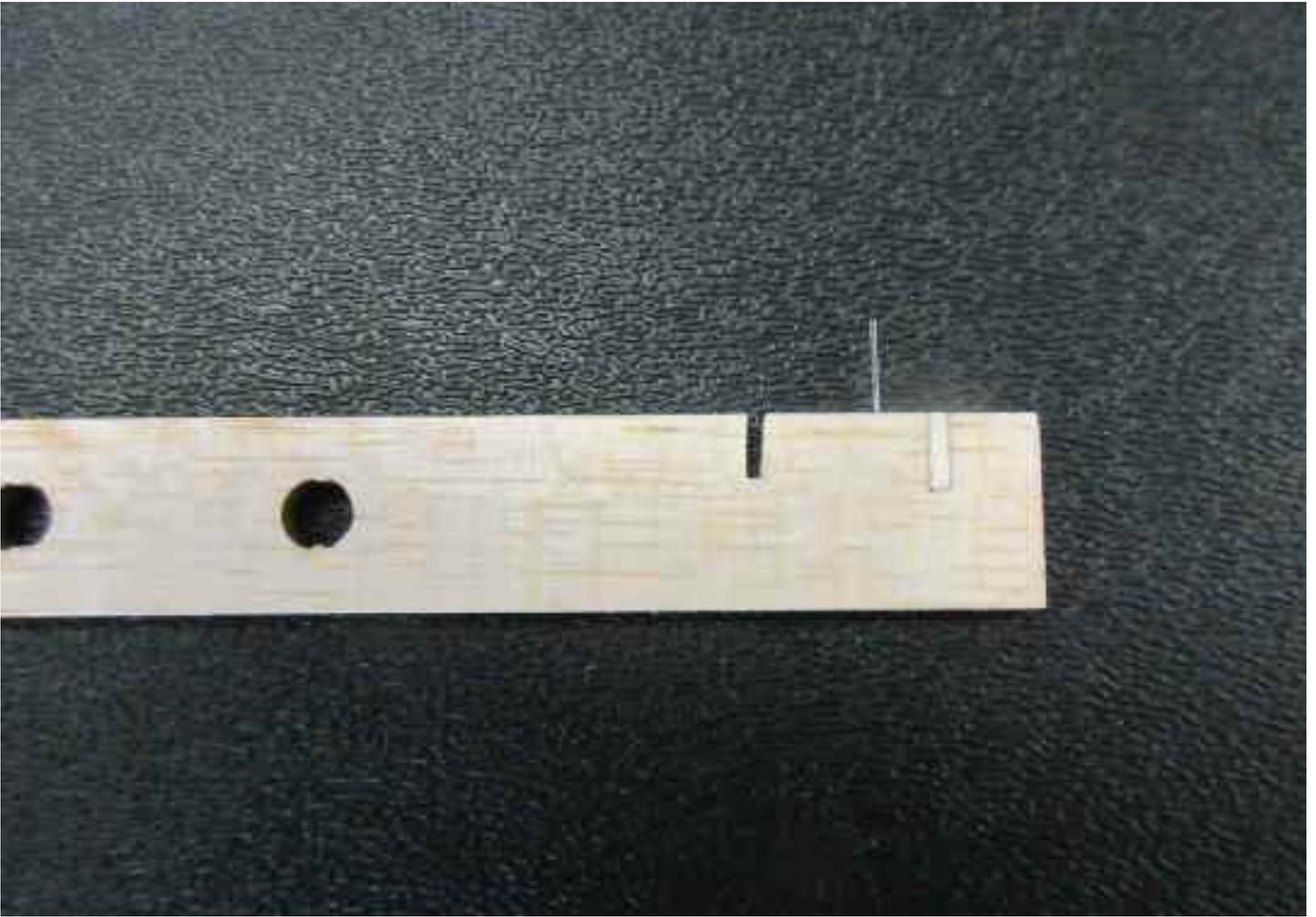
APPLY MEDIUM CA TO SERVO MOUNT FLANGE.
INSTALL IN HOUSING.



COMPLETED RIGHT HAND SIDE WING SERVO MOUNT HOUSING.



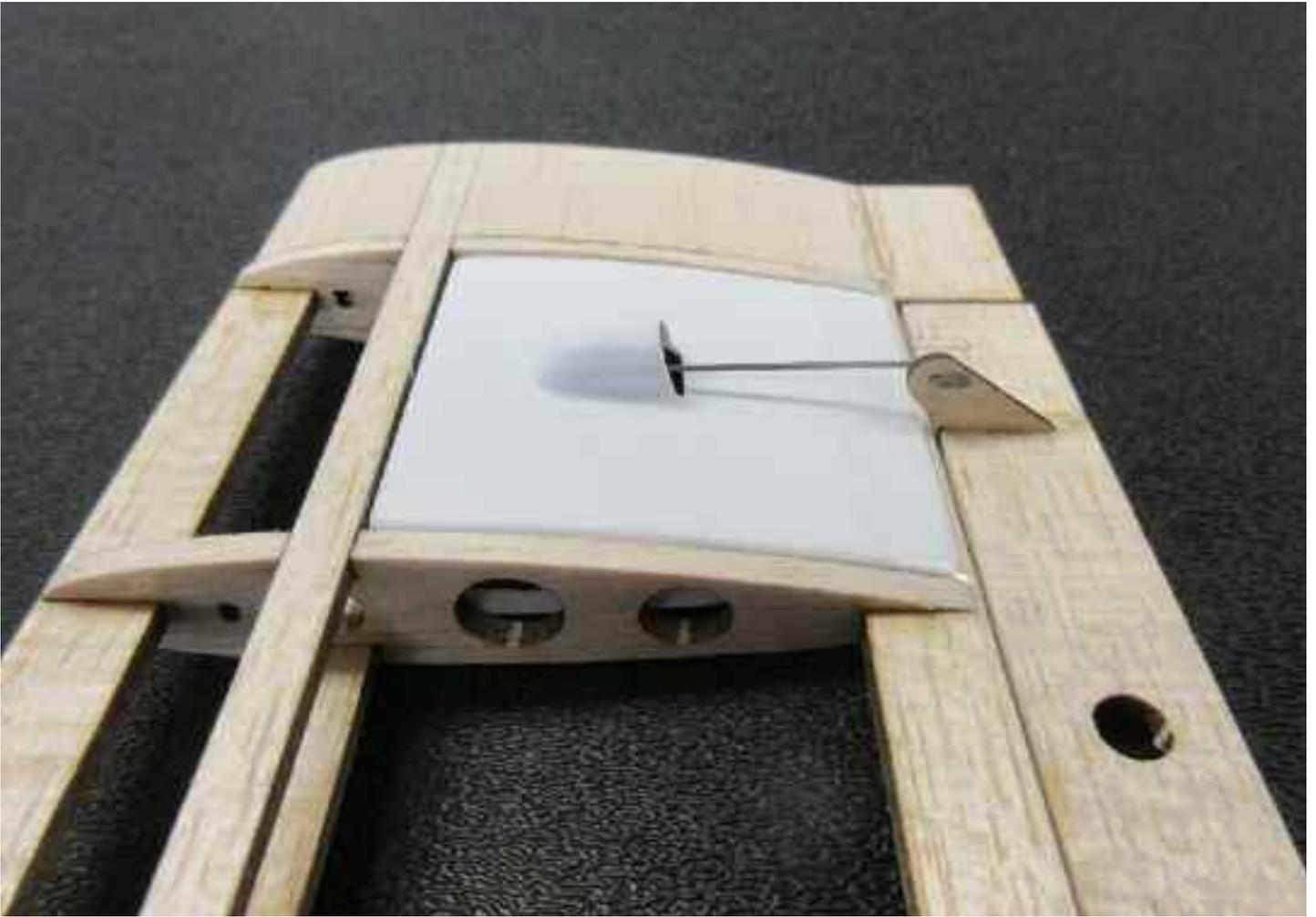
INSTALL WING MOUNT SERVO
HOUSINGS INTO WING. SECURE AT
TRAILING EDGE WITH HIGH STRENGTH
CLEAR TAPE.



FILL CONTROL HORN SLOT.
CUT NEW SLOT 1" FROM
END OF AILERON.



PUSH ROD LENGTH FROM
Z BEND TO Z BEND IS 34 mm.



WING SERVO MOUNT INSTALLED.

YOU WILL CERTAINLY APPRECIATE THE SPEED
AND EASE OF INSTALLATION, AND THE ABILITY TO
REMOVE AND REPLACE SERVOS IF THE NEED ARISES.

PLEASE GIVE US YOUR FEEDBACK AT WILLYNILLIES.COM.

THANK YOU!