



SENDER SHAPE SHIFTER

200 - 350 - 500 CURVED + STRAIGHT



DESIGNED FOR BIKES - SKATEBOARDS - SCOOTERS

Our New Sender Shape Shifter Ramps can be adjusted to have a Straight and Curved Transition!

These ramps are based on our NEW EASY ASSEMBLY design reducing the number of screws required and making surface alignment SUPER EASY. With reasonable DIY Skills and some Basic tool's you should be able to go from Flat Pack to jumping in 30 minutes to 1.5 hrs.

You may have ordered the ramp with an exterior grade colour preservative on one face. It is important to coat all other edges and faces with a clear wood preservative if you would like the ramp to last and function properly. IF your ramp came in Natural Birch then you should coat all faces and edges. Maintaining your product will greatly increase its life span. We recommend treating your ramp annually and spraying bolts and T nuts regularly. Always bring your ramp inside to dry after use. Wood can swell and jam. Some components have small tolerances to ensure a strong stable structure.

Never drag your ramp around. Lift and place the ramp where you will jump to avoid damage to ground contact points. You can use the ramp on all surfaces as long as it is flat and even and the sides / feet do not sink.

ALWAYS CHECK YOUR RAMP IS PROPERLY ASSEMBLED BEFORE EACH TAKE OFF

Jumping can go wrong very quickly and lead to severe or even life changing injuries and damage to you bike, skateboard, scooter and property. We recommend grass take offs and landing when using a bike. Always wear a helmet, knee pads and gloves as a minimum. Ensure clear take-off and landing space all around and if used on the street locate and jump in a safe place with no chance of striking or being struck by a car, van etc.

If you need help or advice please contact support@sender-ramps.com

ASSEMBLY TOOLS

- 1 x Drill with 4 mm Drill Bit
- 1 x Pozi 2 Driver Bit
- 1 x 17 mm Spanner
- 1 x 6 mm Allen HEX Key

ALL bolts should be secured at a 20 Nm Torque Setting.

ASSEMBLING YOUR RAMPS!

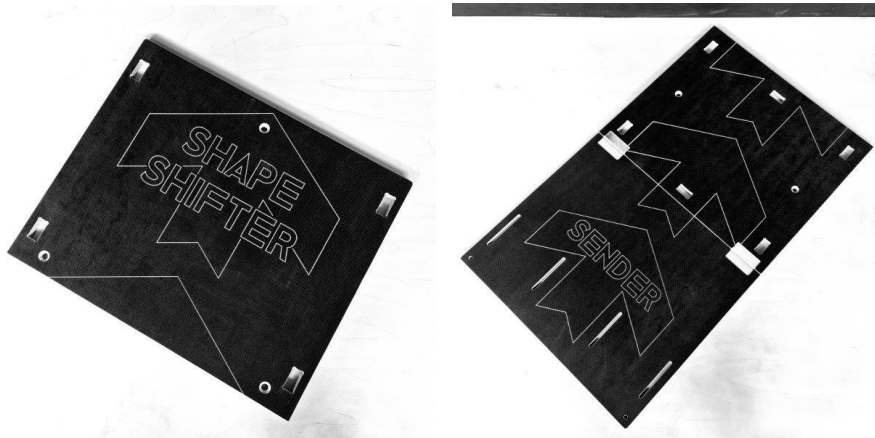
200 – 350 and 500 SHAPE SHIFTER ASSEMBLY IS 99% THE SAME!

NOTE FOR 200 SHAPE SHIFTER OWNERS!

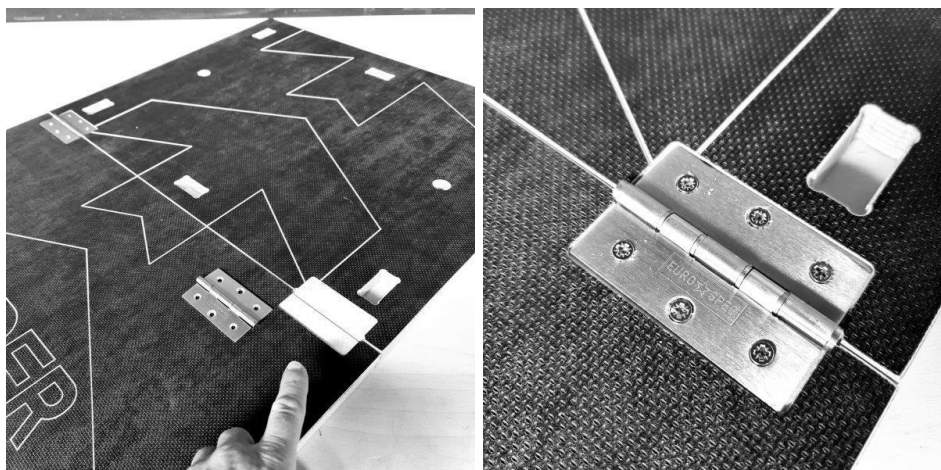
THE ASSEMBLY OF THE BACK PLATE AND INSTALLATION OF THE FEET ON THE 200 ARE SLIGHTLY DIFFERENT. YOU ALSO HAVE THE ABILITY TO REMOVE THE UPPER SECTION ON A 200 TO CREATE A MINI 125 mm KICKER – PLEASE REFER TO THIS SECTION IF YOU HAVE A 200 SHAPE SHIFTER.

STAGE 1:

Your Ramp Surface comes in two parts. The Top Surface has a Single deck. The Lower section has 2 decks and is hinged.

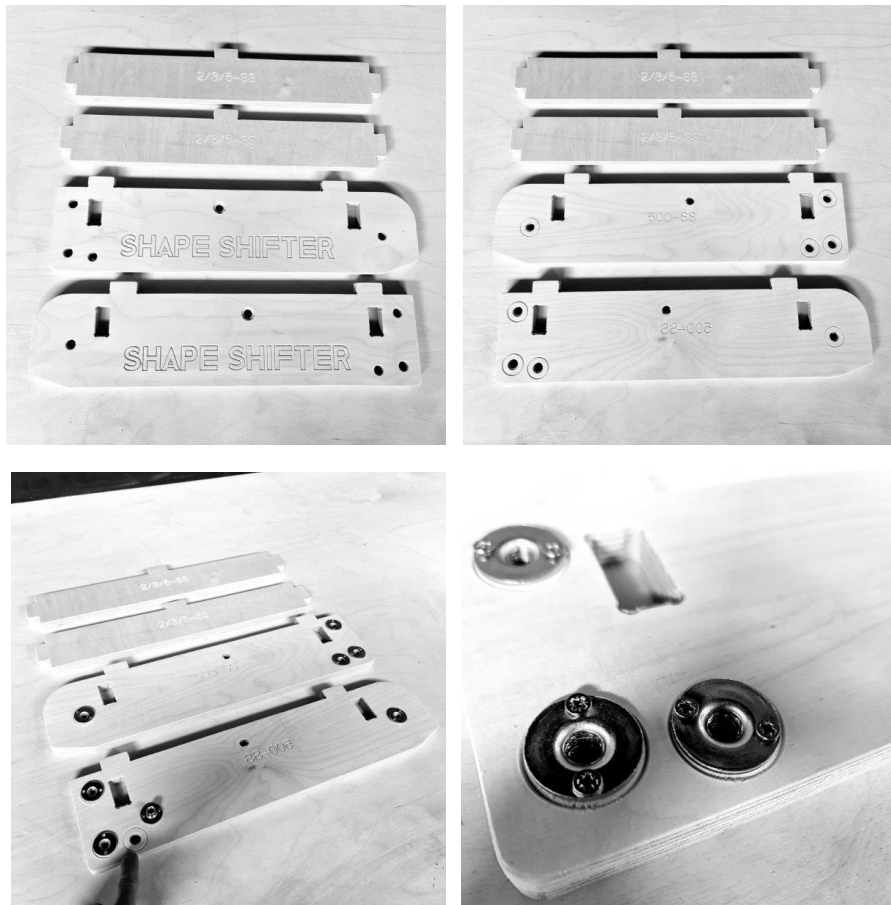


Place the two lower sections together so the hinge pockets align. **CLOSE THE GAP!** Between the surfaces. If you have a 600 mm Quick Clamp hold these surfaces across the join. Install the hinges making sure the join is pulled closed. Use 6 No Hinge Screws in each hinge



STAGE 2:

The front section of the ramp Substructure has two Side Components and 2 cross braces. Turn the SIDE components over so you can see the holes with circles around them. These indicate the place for T Nuts to be inserted and secured. There are 8 T Nuts. Secure these with the small T Nut Screws (same as hinge screws)

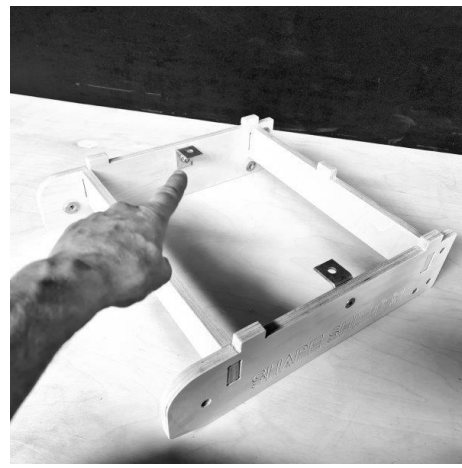
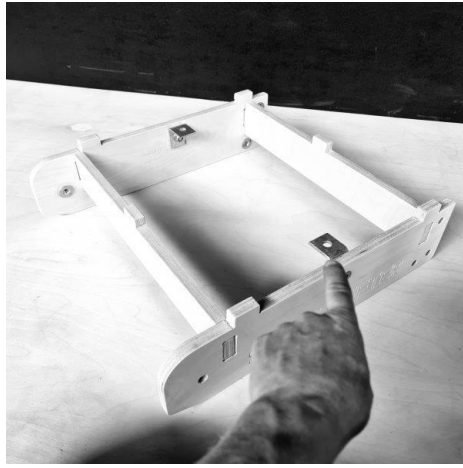


STAGE 3:

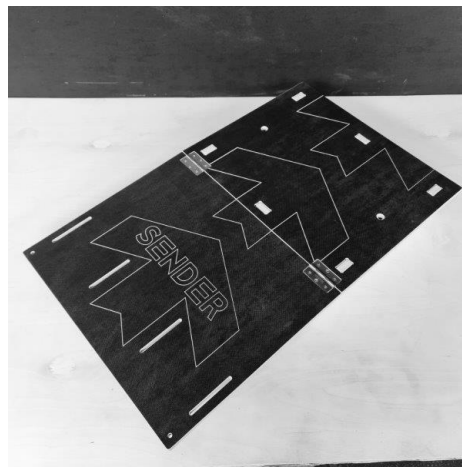
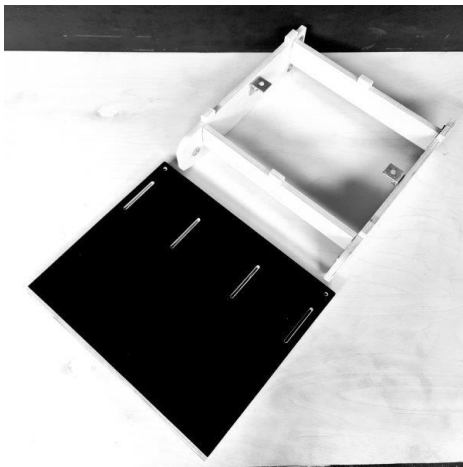
Assemble the front section components as shown below. Take 2 x "L" Brackets – 2 x Nyloc Nuts 2 x Small Washers and 2 x M10 x 35 mm Countersink Bolts. You will need a 17 mm Spanner and 6 mm Hex Key to complete this stage.



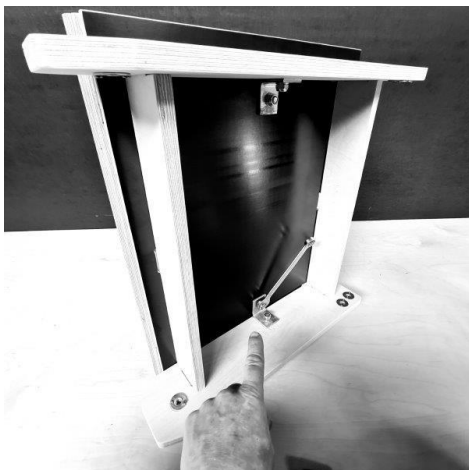
The image on the right show the configuration of Bolt through Plywood – Through the bracket – Through the washer and then secured with a NYLOC Nut. Install the Brackets in the positions shown below. DO NOT TIGHTEN THE BRACKETS TO THE SIDES AT THIS STAGE – FINGER TIGHT IS SUFFICIENT!



Lift the hinged surfaces onto the top of the frame so that the blocks on the sides align with the holes on the surface. Be careful NOT to trap your fingers in the articulating parts.



Carefully lift and rotate all the components as one unit. Open the hinge joint to create a "V" so that the Lower Ramp Section is supported. Place 2 x M10 x 35 Countersink Bolts through the surface and through the brackets. Secure these with Washers and Nuts



CHECK that ALL components are flush and adjust then tighten ALL NUTS AND BOLTS

BONUS 125 mm RAMP IF YOU HAVE A SHAPE SHIFTER 200!

The bottom section of ramp you have created if you have a 200 Shape Shifter is a tiny 125 mm high MINI KICKER. It is strong and stable for any Balance Bike of first Pedal Bike! You cannot make a mini kicker like this on 350 and 500 Ramps.



125 mm MINI KICKER on a 200 SHAPE SHIFTER

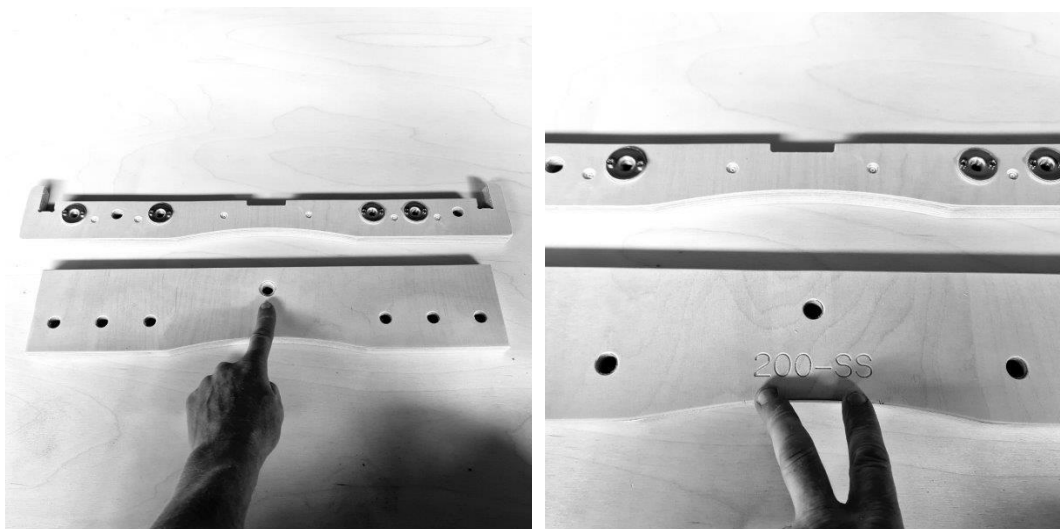
Stage 4:

**STAGE 4 HAS A SHAPE SHIFTER 200 VARIATION. THIS IS SHOWN FIRST.
SKIP THE 200 STAGE IF YOU HAVE A 350 or 500 RAMP**

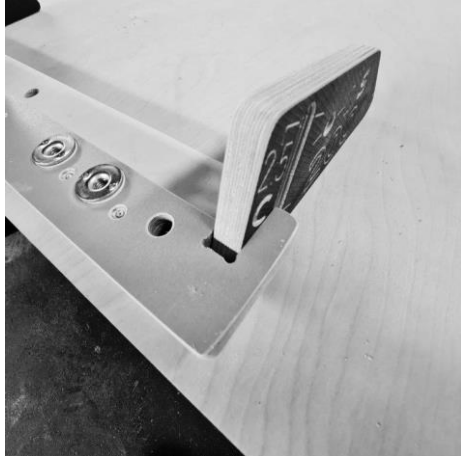
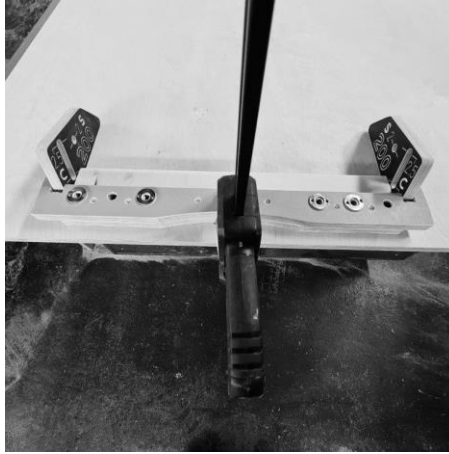
200 BACK PLATE ASSEMBLY

The difference between the 200 and the 350 / 500 is the T NUTS are in the Toothed baton!

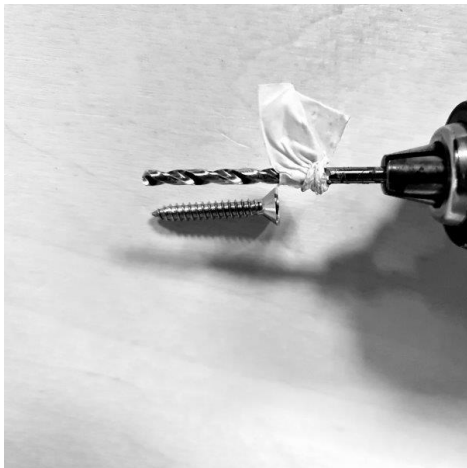
Take the Back Plate and the Baton with the Teeth at either end as shown below. Place 4 No T nuts into the positions that are circled on the Toothed Baton. Secure with the small T Nut screws. The Back Plate has a Central Hole with a chamfer on one side and on the other side you will see 200 – SS. Place the Toothed Baton on top of the Back plate COVERING the 200 – SS Text!



Take the two components to the edge of your work bench / table. You will also need two 18 mm spacers. The 200 Foot Blocks used as spacers are perfect for this stage. Slide the Foot Blocks into the teeth. Make sure the spacers can move / slide in and out. Make sure the components are flush along the entire bottom edge. Hold the two parts with a clamp.



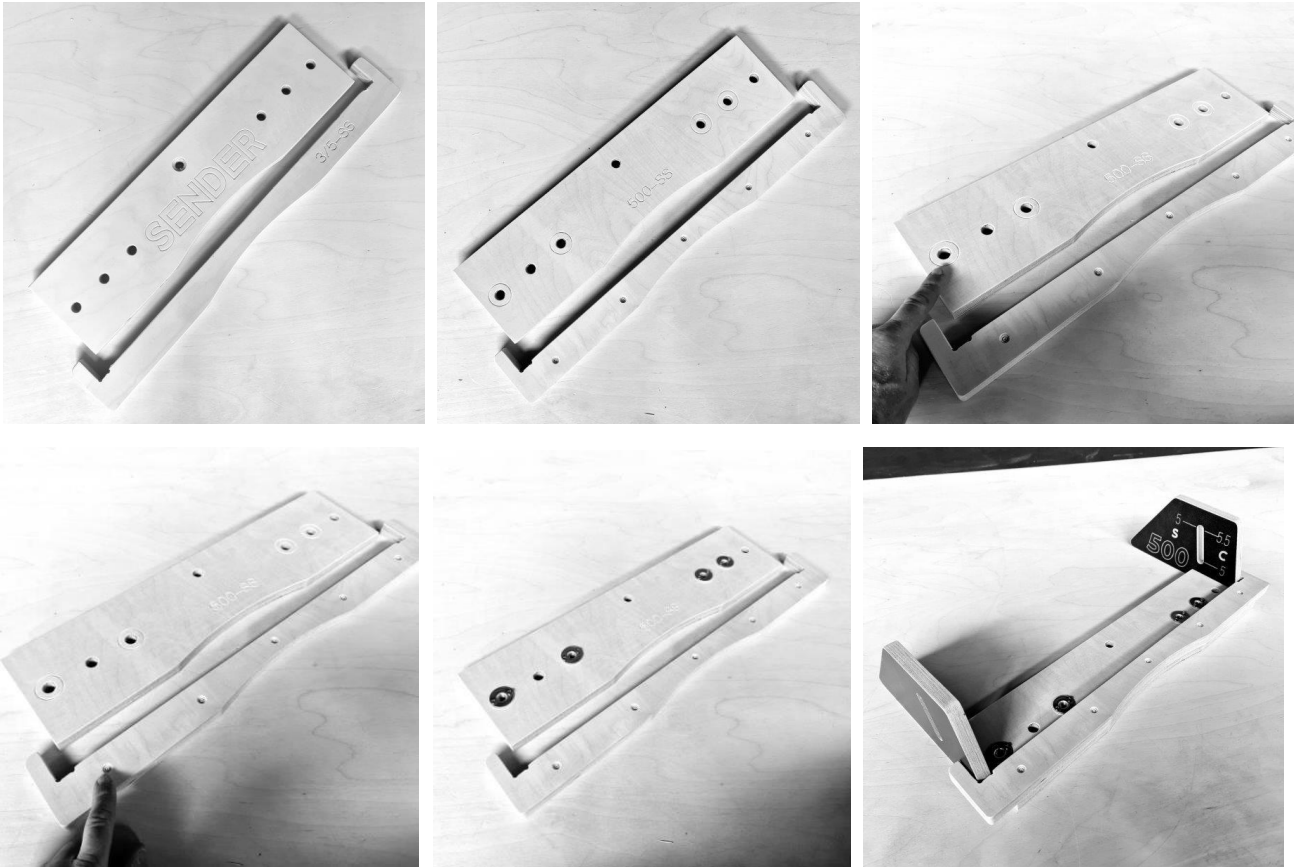
Wrap tape on a 4 mm drill bit to mark the depth of hole. Drill through the Toothed baton and secure the parts with 4 x 30 mm screws. BE AWARE that Stainless Steel is SOFT. You MUST apply constant pressure to the screw head to prevent ROUNDING the Pozi Drive!



The 200 Back Plate is now complete. You can move onto the next stage of the assembly process
Please Skip to Stage 5

350 and 500 BACK PLATE ASSEMBLY

Take the Back Plate and the Baton with the Teeth at either end as shown below. Place 4 No T nuts into the positions that are circled on the Back Plate. Secure with the small T Nut screws. The Back Plate has a Central Hole with a chamfer on one side and on the other side you will see 350 or 500 – SS. Place the Toothed Baton on top of the Back plate COVERING the 350 / 500 – SS Text!



Take the two components to the edge of your work bench / table. You will also need two 18 mm spacers. The 200 Foot Blocks used as spacers are perfect for this stage. Slide the Foot Blocks into the teeth. Make sure the spacers can move / slide in and out. Make sure the components are flush along the entire bottom edge. Hold the two parts with a clamp.



Wrap tape on a 4 mm drill bit to mark the depth of hole. Drill through the Toothed baton and secure the parts with 4 x 30 mm screws. BE AWARE that Stainless Steel is SOFT. You MUST apply constant pressure to the screw head to prevent ROUNDING the Pozi Drive!



The Back Plate is now complete. You can move onto the next stage of the assembly process as shown below.

Stage 5:

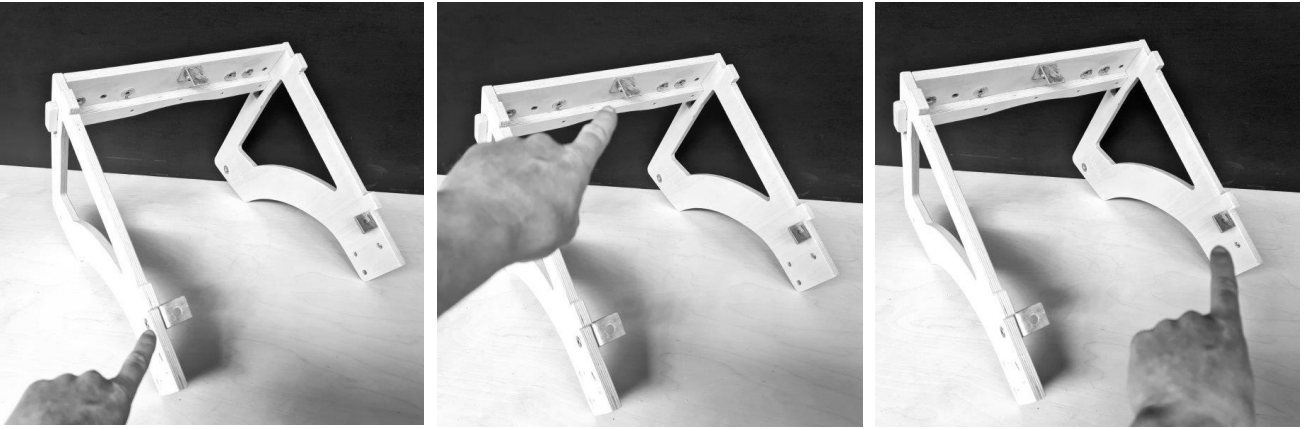
Take the Rear Side Components and the Back Plate. T Nut the circled holes and secure with screws.



Assemble the components as shown below. The Sender text on the Back Plate and Ramp Sides should face outwards. The Back Plate goes through the slots in the Ramp Sides and pushes up to lock in place. If the plate is a little loose at this stage open the Sides of the Ramp.



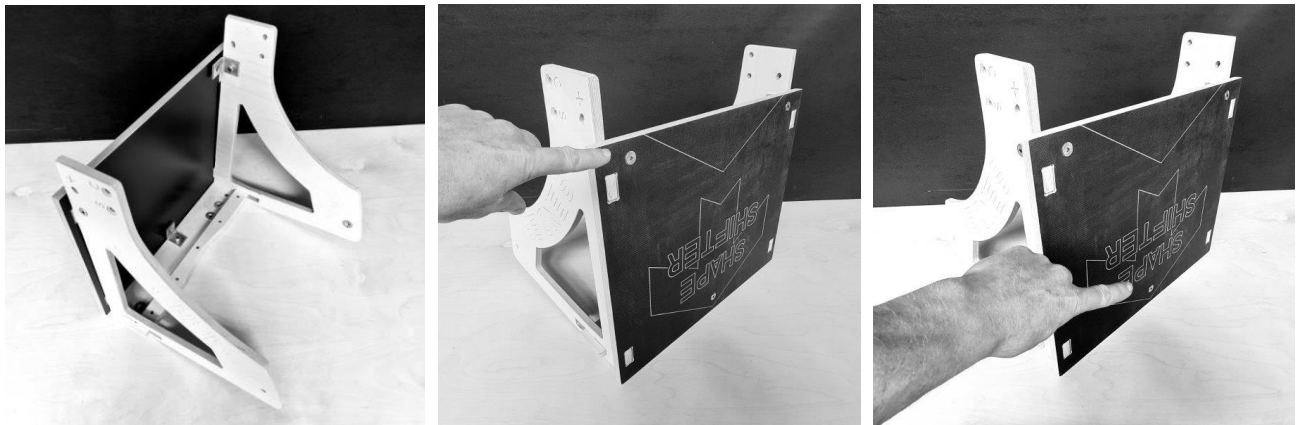
Prepare the Brackets, Nuts and bolts as before and place these in the positions shown. Do not tighten the bolts at this stage.



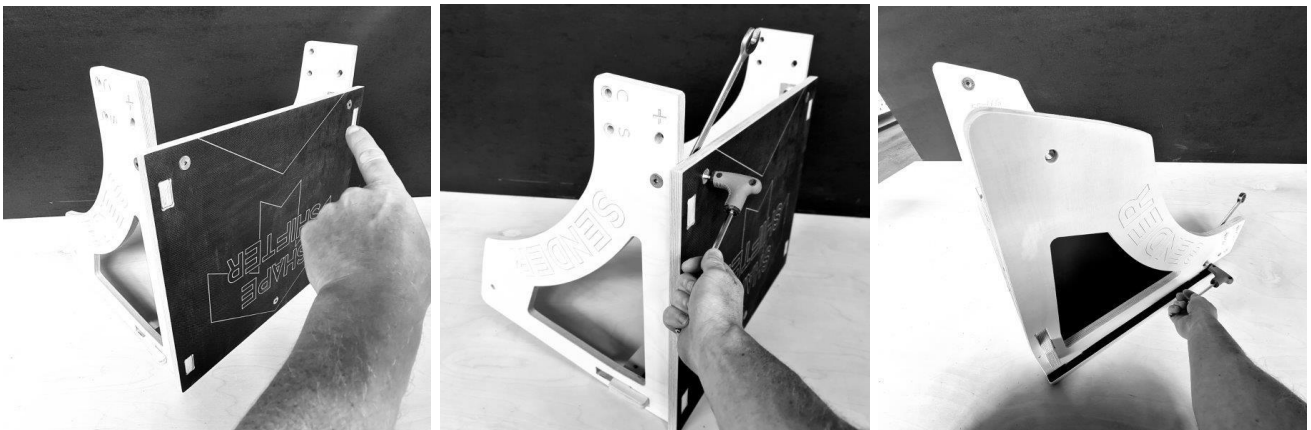
Lift the Top surfaces onto the top of the frame so that the blocks on the sides align with the holes on the surface. Be careful NOT to trap your fingers.



Place 2 x M10 x 35 Countersink Bolts through the surface and through the brackets. Secure these with Washers and Nuts



CHECK that ALL components are flush and adjust then tighten ALL NUTS AND BOLTS

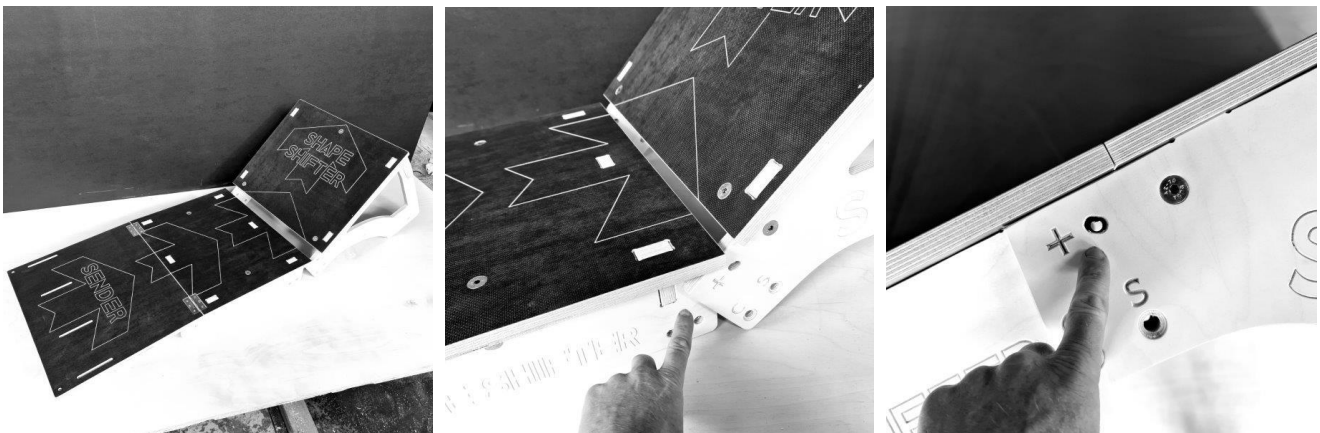




Finally! On the sides of the Upper Section of ramp you will find a screw hole on either side of the Back Plate. Drill through these marker points and secure with a 4 x 30 mm Screw on each side. DO NOT OVERDRIVE THESE SCREWS OR YOU RISK FLAKING / BURSTING THE SIDE OFF THE PLYWOOD. FLUSH IS GOOD!

Stage 6:

We will now join the two Ramps Sections together. Place the Lower Section of the ramp with the hinged joint in line with the Upper Section. The Lower Section should go INSIDE the upper section. You may need to FULLY ALIGN the two sections and then apply some force to get them to pass inside. BEWARE OF FINGER ENTRAPMENT!



STRAIGHT RAMP MODE

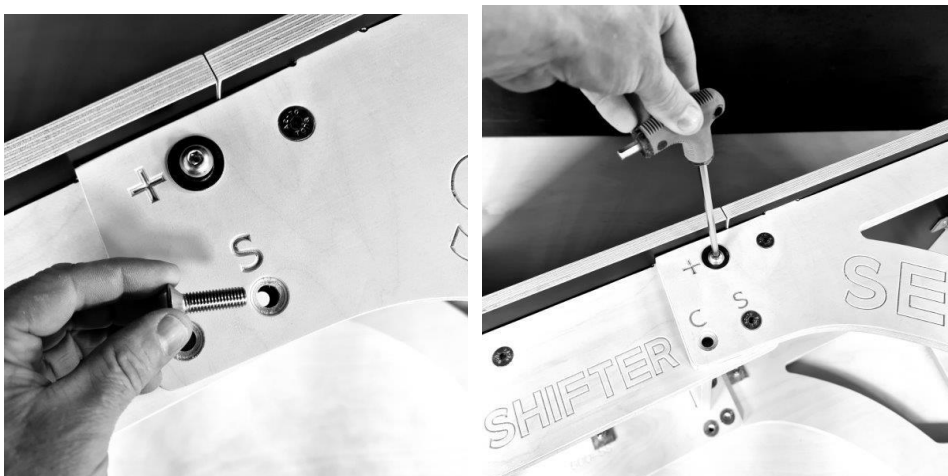
IMPORTANT NOTE!

IN STRAIGHT MODE THERE IS NO HEIGHT ADJUSTMENT! THE RAMP CAN ONLY BE FIXED AT 200 – 350 or 500 mm HIGH

We will begin aligning the Sections to create a STRAIGHT take off ramp. Manipulate the sections until the Ramp Surfaces join and the gap is closed. Look through the + Hole and then make sure that you can see through the "S" Hole. Place and M10 x 40 mm Button Head Bolt through the + Hole BY FINGER to make sure you catch the thread (CROSS THREADING IS EASILY DONE WITH A TOOL!)

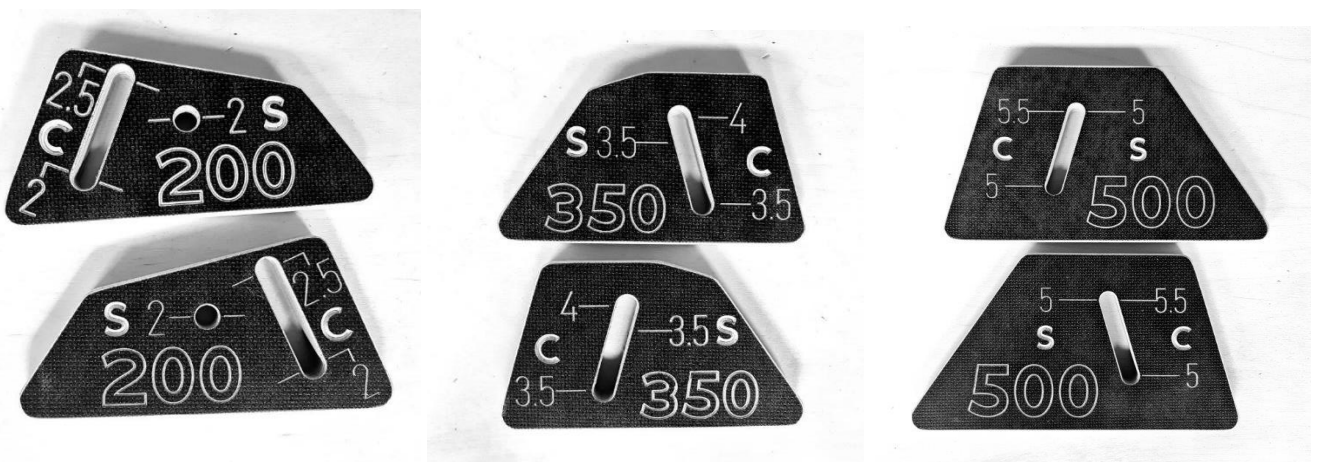


Place an M10 x 35 mm COUNTERSINK Bolt through the S Hole and wind by finger first. Use a 6 mm HEX Key to tighten the parts. Do not overtighten at this stage! Turn the Ramp over and repeat on the other side.



Take the 200 / 350 or 500 FEET

Please note that the 200 FEET are different from the 350 and 500 Feet. The 200 Feet have a specific HOLE for the 200 STRAIGHT SETTING and a SLOT for the 200 – 250 CURVED SETTING. The 350 and 500 Feet ONLY have a SLOT with a MARKER POINT for the 350 and 500 STRAIGHT SETTING

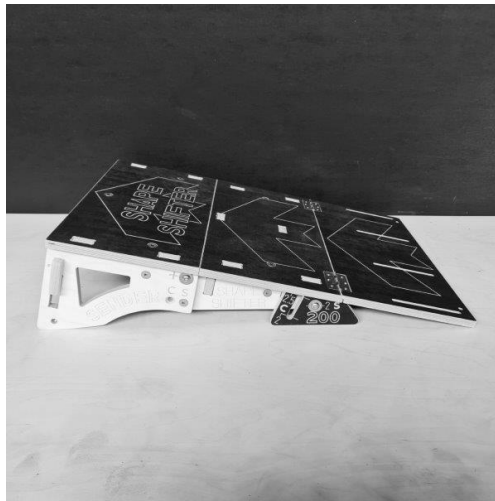


200 FOOT INSTALLATION IN STRAIGHT MODE

ALIGN THE 200 S Hole with the Hole in the Side of the Ramp in the Lower Section. Place an M10 x 40 mm Button Head Bolt and a washer into this hole and tighten by finger first to prevent cross threading.



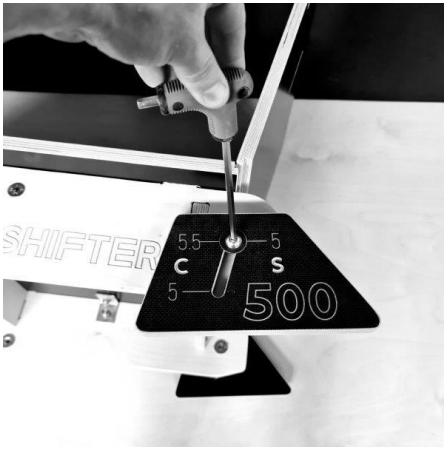
Install the other foot on the other side. Make sure the foot is flush with the ground. Tighten these bolts and then check and tighten the bolts at the articulating joint marker S and +.



350 and 500 FOOT INSTALLATION IN STRAIGHT MODE

ALIGN THE 350 or 500 S Hole with the Hole in the Side of the Ramp in the Lower Section. Place an M10 x 40 mm Button Head Bolt and a washer into this hole and tighten by finger first to prevent cross threading.





Install the other foot on the other side. Make sure the foot is flush with the ground. Tighten these bolts and then check and tighten the bolts at the articulating joint marker S and +.

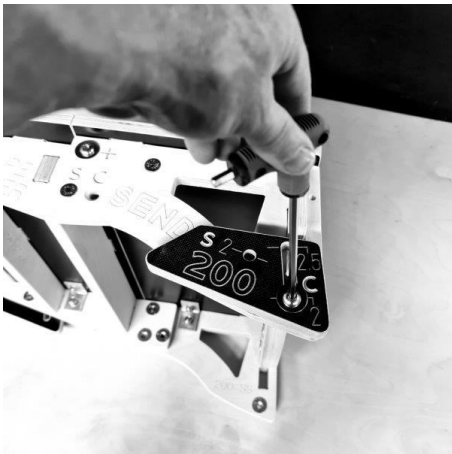


You now have a STRAIGHT 350 or 500 SHAPE SHIFTER RAMP

CURVED RAMP MODE

VARIATION - 200 FOOT INSTALLATION IN CURVED MODE

In Straight Mode you use the single hole. In CURVED Mode you use the slot which is the same as the 350 and 500 Feet! Please see below.



IMPORTANT NOTE!

IN CURVED MODE THERE IS 50 mm OF HEIGHT ADJUSTMENT ON EACH RAMP

REMOVE THE S BOLT – LOOSEN THE + BOLT!



REMOVE the foot from the front of the ramp and place it at the back of the ramp. Align the slot with the T Nut Hole and replace the M10 x 40 mm Button Head Bolt. Do not over tighten at this stage.



TURN the ramps over and REMOVE THE S BOLT - THEN LOOSEN the + Bolt. Manipulate the sections until the Ramp Surfaces until you can see through the "C" Hole. Place and M10 x 40 mm Button Head Bolt through the C Hole BY FINGER to make sure you catch the thread (CROSS THREADING IS EASILY DONE WITH A TOOL!)



Tighten these bolts and then move and replace the FOOT at the back of the ramp.



TURN THE RAMP OVER and PLACE the second C BOLT in the hole.



Make sure that the Feet are flush with the ground. CHECK ALL BOLTS ARE TIGHT BEFORE USING THE RAMP IN CURVED MODE!



HEIGHT ADJUSTMENT IN CURVED MODE

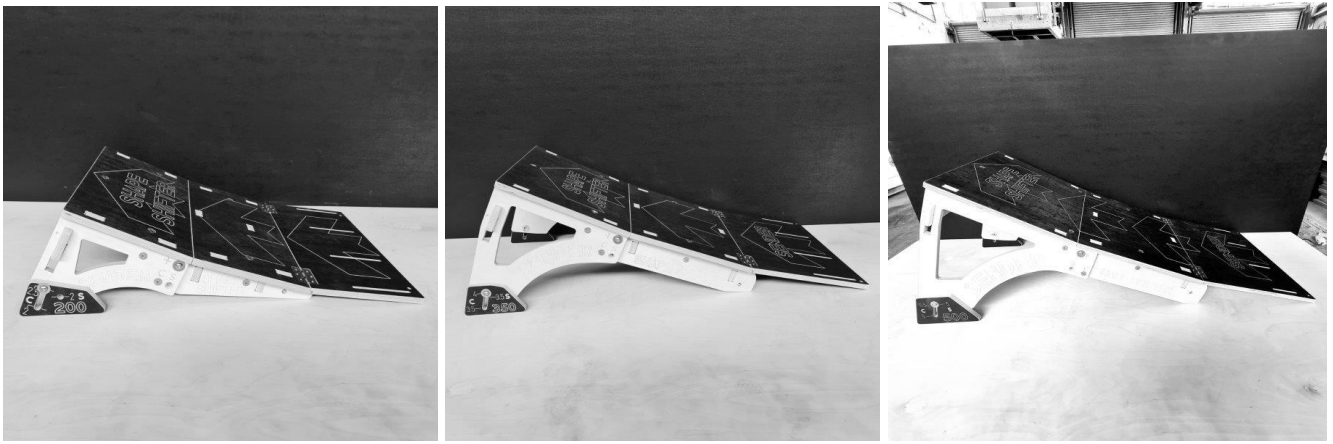
Adjusting the Height ALSO increases the ramp angle (Transition) by a small amount! The Ramp will become steeper / more KICK! Be prepared for this!

Simply Loosen the Feet Bolts. Lift the back of the ramp so the Bolt goes to the top of the slot. Align the feet with the ground and tighten the bolts.

WARNING! IF YOU DO NOT TIGHTEN THESE BOLTS PROPERLY THE RAMP COULD DROP UNEXPECTEDLY!



SENDER SHAPE SHIFTERS IN EXTENDED HEIGHT CURVED MODE 250 – 400 – 550 mm



STORAGE AND TRANSPORT MODE

Your ramp can be turned quickly into COMPACT MODE or if you remove the bolts between the lower and upper section SUPER COMPACT Mode!



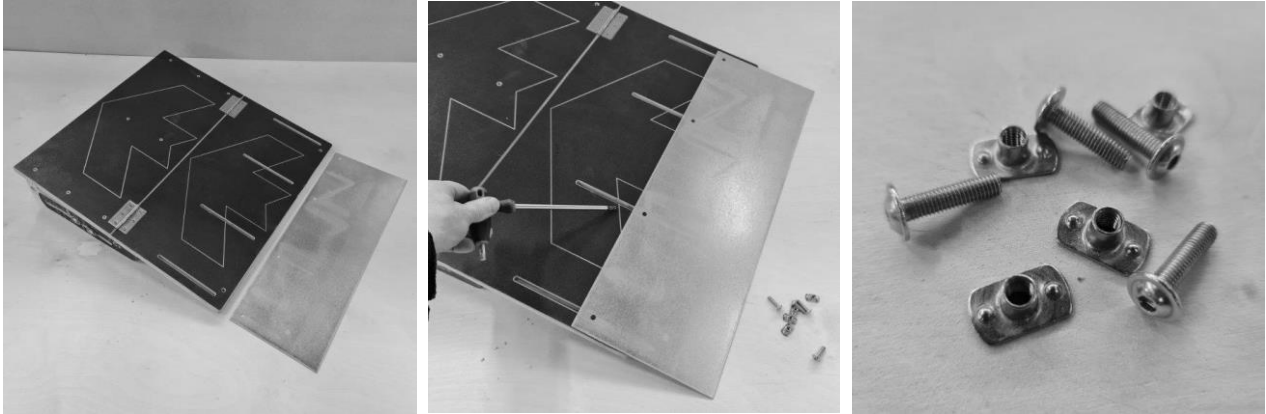
NORMAL – COMPACT – SUPER COMPACT MODE

INSTALLING THE SKATE PLATE

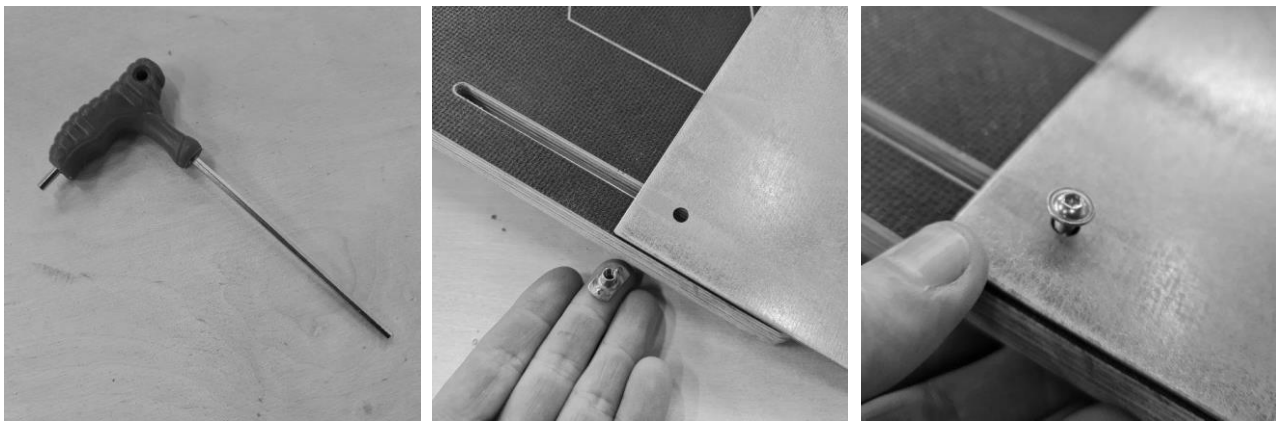
This component may not have come with your ramp

The Skate Plate can be installed and removed quickly. However, the Skate Plate is better left on the ramp to avoid losing the parts. (More can be ordered) You will need a 3 mm Allen Key found

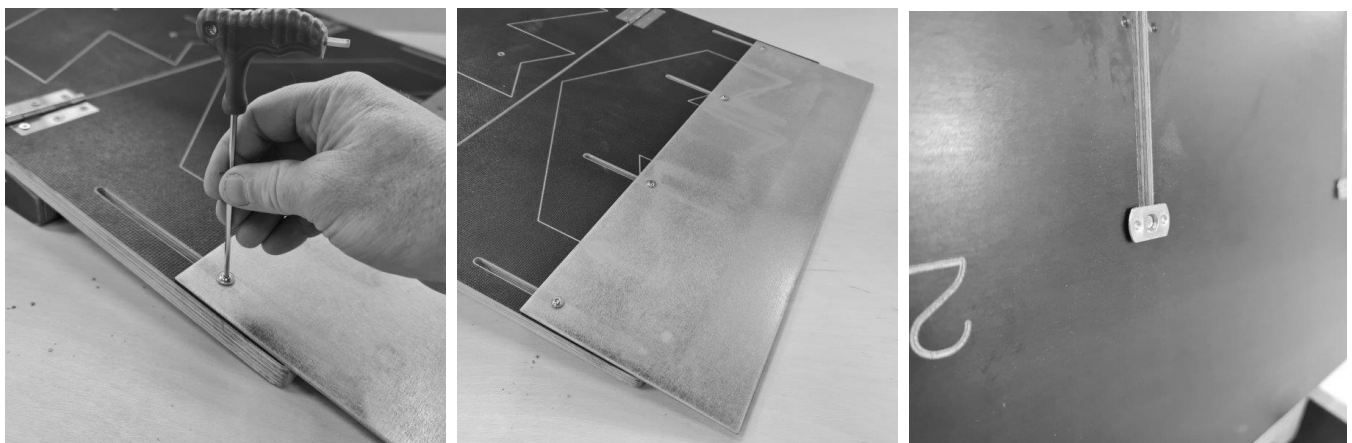
on your BIKE TOOL! Place the Galvanised Steel Plate over the 4 slots on the first ramp surface. Take a small bolt and T Nut.



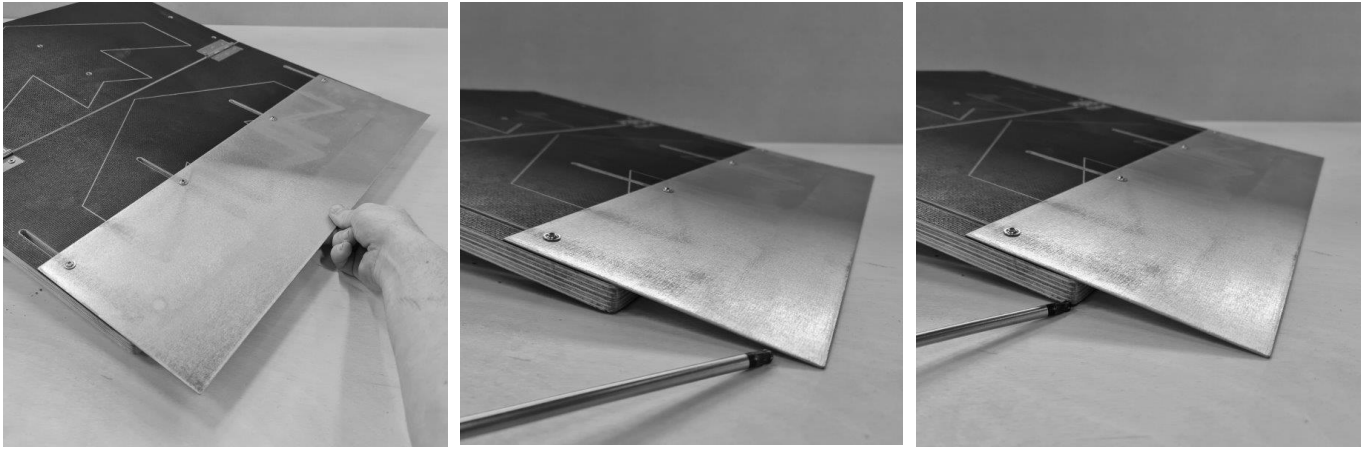
Place and Hold the T nut underneath the surface inside the first slot. Move the T nut so you can see it through the first hole in the plate. Connect the Bolt and T Nut together and wind the bolt by finger until nearly tight against the plate.



Repeat for the remaining 3 x T nuts and Bolts. You may need to manipulate the plate so do not tighten the bolts with the Hex key at this stage. Please ensure that the T nut is perpendicular to the slot when you look at the smooth back surface of the ramp for full strength. See far right image below.

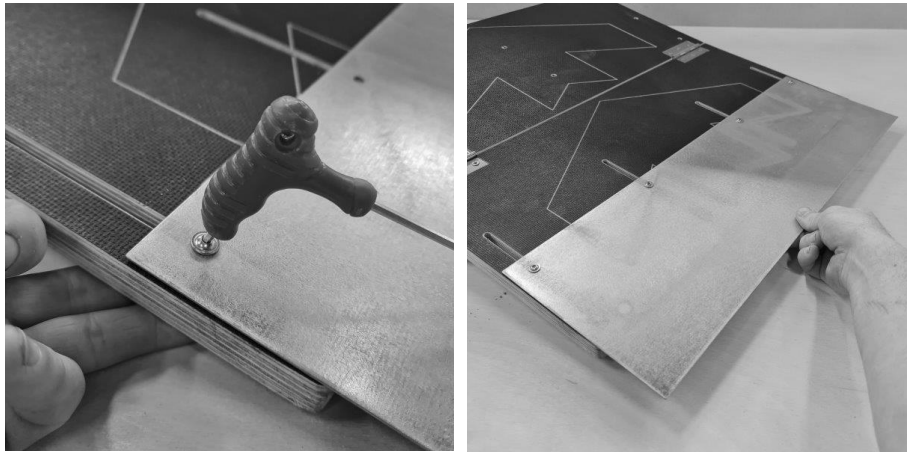


Adjust the plate by sliding it up and down the slots. The plate is in the correct place when the edge is on the ground and flush with the face of the ramp. **IMPORTANT! You will need to move / adjust the plate EACH Time you change the height and Transition of the ramp**



Once the position is correct tighten the bolts to prevent movement / slippage. When you are finished with the ramp the plate can slide back into storage mode. Simply untighten – slide and retighten the plate. Be careful not to scratch the ramp surface.

IT IS EXTREMELY DANGEROUS TO RIDE OR MOVE THE RAMP WITH THE SKATE PLATE PROTRUDING.



TREATING YOUR RAMP!

Please remember to coat your ramp with a CLEAR preservative. Be aware that even clear preservative can darken the colour of your ramp so trial one of the lower braces / batons first especially if you have a COLOURED RAMP. NEVER USE VARNISH!

Spray your bolts and T Nuts regularly to make placement and removal easier!

We recommend **RONSEAL LOW VOC (Water Based) DECKING PROTECTOR NATURAL COLOUR!**

REPLACEMENT PARTS!

You can get replacement parts by contacting us at support@sender-ramps.com

HAPPY LANDINGS!

Remember to wear your Helmet, Gloves and Knee Pads and Jump in a Safe Place

GET IN TOUCH!

If you need help please ask! 00 44 7719 309214 – scott@sender-ramps.com