



SENDER PROGRESSION RAMPS

THE SENDER EXTENDER



RIDE CONCEPTS BIKE: **CANYON STRIVE**

**PLEASE TAKE CARE OPENING YOUR PROGRESSION RAMPS WITH A KNIFE
THE OPTIONAL CARRY BAG MAY BE INSIDE ALONG WITH ASSEMBLY COMPONENTS.**

Thank you for buying a SENDER EXTENDER. FLY and PROGRESSION RAMPS are the most adjustable ramps ever designed and manufactured. Each part has been carefully considered for weight and strength. Progression ramps allow you to progress and build confidence and skill at your speed and height on Straight and Curved Transitions.

****Build confidence with ease – Gain height in small increments and become familiar with straight and curved take offs!**

MODULAR:

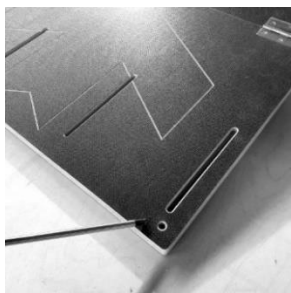
THE EXTENDER DOES NOT work with other SENDER BOLT ON features. IT ONLY WORKS ON THE 500 CORE STRAIGHT and CURVED RAMPS AND THE EXPERT PROGRESSION RAMP. For advice on compatibility please contact us. Progression ramps can be used as a TAKE-OFF or LANDING ramps in Straight or Curved mode but NEVER used as a LANDING with the EXTENDER attached! The extension is not designed to take LANDING RAMP impact loads. The ramp is best used on grass but can be used on tar or concrete. However, the severity of landing and risk factor will greatly increase on hard surfaces.

SAFETY ADVICE:

Jumping can go wrong very quickly at ANY height. However, the severity of injuries will increase greatly with the EXTENDER attached! It is possible to land to flat off the highest setting but it may not be comfortable even on a Full Suspension Bike. We strongly advise NOT jumping to flat with a hardtail, BMX or jump bike above 650 mm. In all cases a grass landing slope will be much better and safer.

SAFETY FEATURE:

The front edge of the ramp has 2 x PEG POINTS so you can add extra security when using the ramp on grass or gravel. We strongly recommend using these at ALL Times. **You must use these anchor points if you plan to attempt or execute any back or front flips.**



SUITABLE FOR SKATEBOARDS and SCOOTERS

Progression ramps can be used with Skateboards and Scooters with the OPTIONAL Skate Plate. This Galvanised plate can be retro fitted. Once installed it can be adjusted through all the angles on the ramps!



RAMP WEIGHT / RANGE / ADJUSTMENT + MARKINGS:

(S) STRAIGHT – (C) CURVED – (C+) CURVED PLUS

When attached to the EXPERT RAMP you will have 24 SETTINGS:

EXPERT STRAIGHT: Without EXT 500 / 550 / 600 / 650 **with EXT** 500 = 625 / 550 = 700 / 600 = 750 / 650 = 800

EXPERT CURVED: Without EXT 500 / 550 / 600 / 650 **with EXT** 500 = 700 / 550 = 750 / 600 = 800 / 650 = 850

EXPERT CURVED PLUS / DIRT JUMP: Without EXT 500 / 550 / 600 / 650 **with EXT** 500 = 725 / 550 = 775 / 600 = 850 / 650 = 900

Please note that the heights provided are approximate / a guide. The exact height will vary on the surface you place your ramp.

- SENDER EXTENDER WEIGHT 6 Kgs

Transition Length EXPERT is 1500 mm + EXTENDER 325 mm = 1825 mm

OPTIONAL COMPONENTS: TRANSPORT BAG – SKATE PLATE – PROGRESSION EXTENSION



SAFE OPERATION:

Once you are familiar with all the parts you can set up, fold and pack PROGRESSION RAMPS in 5 – 10 minutes. You can easily adjust the ramp to YOUR CHOSEN height in a matter of minutes. However, YOU MUST ALWAYS check the components are bolted tightly together to prevent the ramp from failing / folding or collapsing. Lift your ramp into place with two people. Dragging the ramp will damage components.

The Ramps have an OPTIONAL and strong Vinyl Carry Bag which has webbing strap points on the front you can use for attaching clothing (you will need to add elastic or similar). Lift the bag using the central lifting loop or both handles to mount on your back. The load / weight on one strap alone may rip the stitching. We do not recommend children under 16 carry the bag on the back OR set the ramp up.

WARNING – These ramps have moving components that can cause a finger entrapment. Under 16's should be supervised when assembling, erecting or changing the mode of the ramp.

The Ramp has many MOVING PARTS which means finger entrapment is a significant risk. Always unfold / adjust / store with care. Once again under 16's should not set the ramp up. We advise packing, unpacking and transporting the ramp with two people to avoid manual handling injuries.

DESIGNED FOR:

- Riders, clubs and coaches on all types of bikes - Heavy use including E Bikes.
- SWL on Both Components 150 Kgs – EXPERT RAMP Dynamically Tested to over 350 Kgs – EXTENDER Tested to 150 Kgs
- Bolt Torque setting is 12 Nm
- **EXTENDER NOT TO BE USED AS A LANDING RAMP!**

SAFE USE AND PPE:

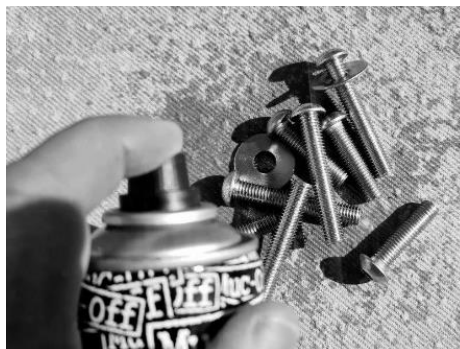
Always wear a full face helmet, gloves and knee pads when jumping. We also recommend back protection and a neck brace. You should not jump ramp to ramp with a gap between components. Progression Ramps can be landed to FLAT. However, it is better to use a grass downslope as the height increases or a landing ramp. Ensure adequate fall space all around with no surrounding impact surfaces like fences, trees, vehicles or roads. Keep spectators clear. Locate your ramp on flat even ground. Take your time and follow all the user instructions carefully for max strength. Built confidence before trying higher jumps. We recommend hiring / consulting a coach to improve skills. When jumping goes wrong it can lead to life changing injuries and destroy expensive bikes.

SENDER BUILT TO LAST:

Designed and Manufactured in the Highlands of Scotland from 18 mm (13 layer) Birch Plywood and 18 mm (13 layer) Phenolic Grip (mesh) coated Plywood secured with Stainless Steel Components. Look after your ramp and it will last a life time. We recommend storing the ramp inside after use and carefully drying the ramp if it is used outside in the damp or rain. **Spare parts are available for purchase on request.** The Plywood has been Independently Impact tested and Insert Pull Tested. Do not drag or pull the ramp around. It should be LIFTED into place to prevent premature deterioration.

MAINTENANCE:

When you assemble your ramp please use silicone spray to protect and lubricate the bolts. Follow instructions on the bottle / can for safe use.



Torque Wrench (recommended) – Spray your bolts during assembly process and as often as possible for better function

Moving parts such as Nuts and Bolts should be silicone sprayed frequently. All cut edges and natural plywood faces should be treated with LOW VOC (Water Based) Decking protector Natural Colour. Repeat annually. Under no circumstances use Varnish!! Check for damage before and after each use and retire the Ramp if you find any until you seek further advice from support@sender-ramps.com. Additional notes at the end of this guidebook.

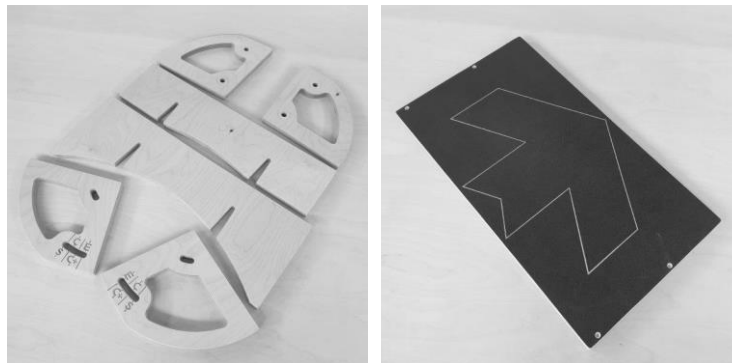
INSTALLATION EQUIPMENT REQUIRED:

- 1 x 6 mm HEX KEY (Found ON Your Bike Maintenance TOOL!) – SUPER Fast with an Impact Gun with 6 mm Attachment.
- A “T” HANDLE 6 mm HEX / ALLEN KEY is useful piece of equipment for tightening bolts
- A Torque Wrench will ensure that ALL bolts are set at the max tension of 12 Nm

Your ramp may come unassembled or assembled. Please reads the section appropriate to your purchase.

SENDER EXTENDER ASSEMBLY

COMPONENTS:



BIRCH PLYWOOD COMPONENTS – EXTENDER SURFACE

VERY IMPORTANT:

STAINLESS STEEL IS SOFT. It is VERY easy to round the heads of screws. Apply CONSTANT PRESSURE when fixing components. Take your time to complete the ASSEMBLY process. Poor Assembly WILL lead to a weak and poorly functioning product!

ASSEMBLY TOOLS:

- 1 x Drill Driver
- 1 x Impact Drill Driver
- 1 x Pozi 2 Hand Screw Driver
- 1 x 4 mm Drill Bit
- 1 x Pozi 2 Driver Bit
- 1 x TX25 Driver Bit
- 1 OR 2 x 600 mm Long Quick Wood Clamps

Wear appropriate PPE when assembling your product – Eyewear / Gloves / Footwear. Protect your work space to avoid damaging your property.

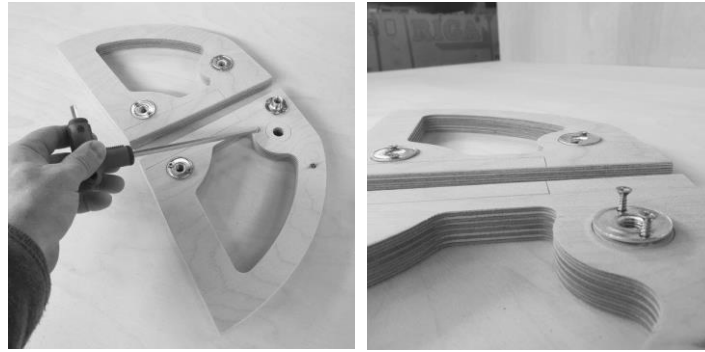
EXTENDER FIXINGS:

- 2 x 10 x 60 mm Button Head Bolts
- 4 x 10 x 40 mm Button Head Bolts
- 6 x Large Washers
- 6 x 4 x 30 Screws
- 12 x Stainless Steel TX25 Screws
- 4 x T Nuts
- 8 x Stainless Steel T Nut Screws

ASSEMBLING YOUR SENDER EXTENDER

STAGE 1: Time to assemble approximately 1 Hr

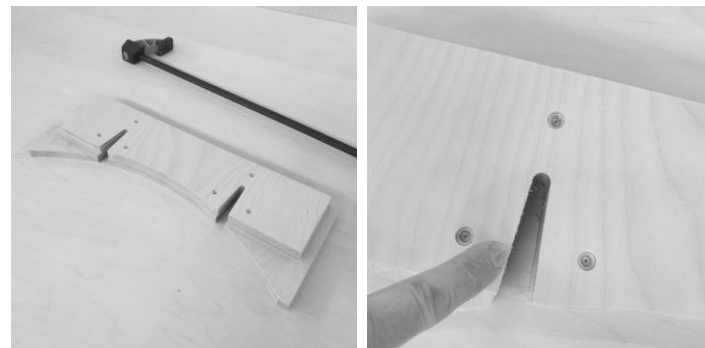
Select the two Curved INTERNAL Support components with 13 mm holes through the plywood and CIRCLE / ROUND Markers around the holes. Place the T nuts into **the CIRCLED Holes ONLY!** Place the Small Screws into the holes in the T Nuts and fix them to the Plywood. The Screws **MUST** be placed **VERTICALLY!** Drive them flush to secure the T nut.



Take the two BACK PLATES. The SMALL Back Plate has 6 screw marker points. There are 3 around each slot. Place the BIG Back Plate Face down so you can see the "O".



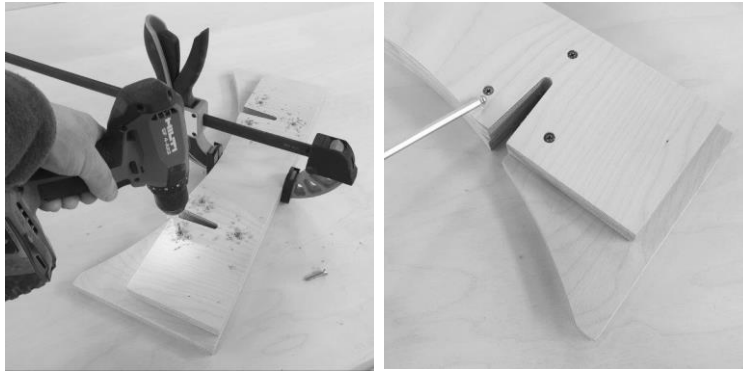
Place the Small Plate on top of the Big Plate. Make sure the plates are aligned and the inside of BOTH slots are flush.



Clamp the components together and check they remain aligned. Use a piece of tape on a 4 mm drill bit to mark the correct hole depth. The hole depth should be less than the screw length. The plates are secured with 6 x 4 x 30 Screws. Remember the Stainless Steel Screws are soft and it is easy to round the heads!



Drive the screws flush with the surface. If you over drive the screws they may appear on the face of the back plate!

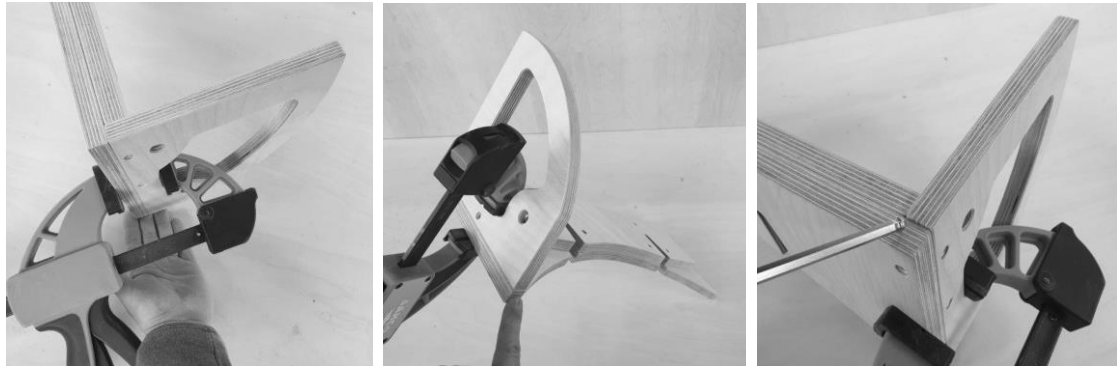


STAGE 2:

Take the back plate and the Right Curved INTERNAL SUPPORT. This curved support has the T nut fixings. Clamp these parts together as shown below.



Move / Align the Internal Side Support so that the Bottom edge is flush with the Back Plate. The top (Straight Edge) should protrude by approx. 1.5 mm.



Drill through the Curved Side into the Back Plate at both screw marker points and fix with 2 x TX25 Screws. You may need to twist the clamp down ONCE the first screw is secured. Drill through the back plate into the Curved side plate and fix with a TX25 Screw.



Turn the Structure around and repeat this process to install the second Curved Internal Side Plate.



Finish this process by removing the clamps and drilling through the Back Plate into the Curved Side Plate and securing with 2 x TX25 Screws.



STAGE 3:

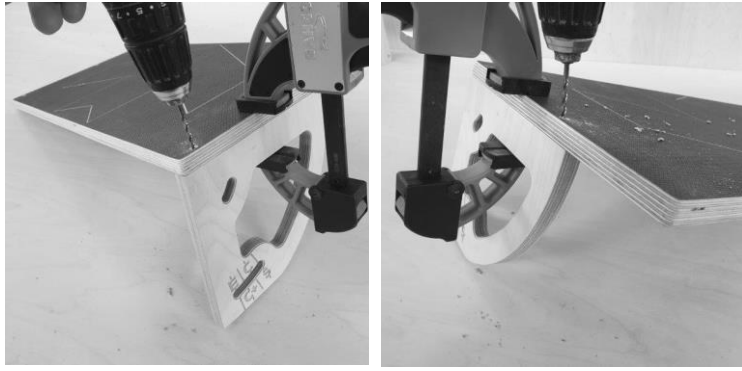
Take the EXTENDER SURFACE and the two EXTERNAL Side Plates. Clamp the Right External Side Plate to the Extender Surface as shown below. **DOUBLE CHECK THE ORIENTATION OF COMPONENTS!**



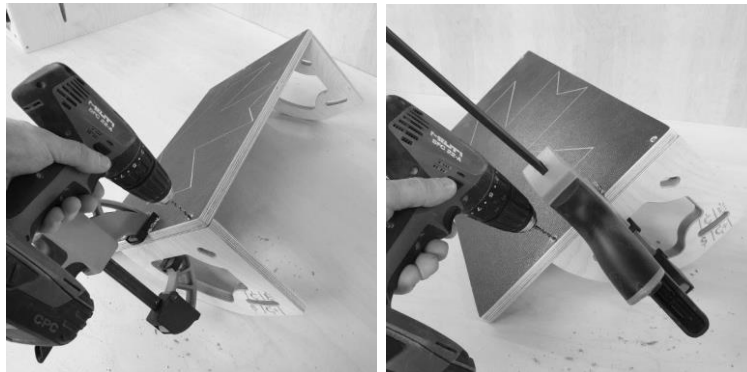
Manipulate the Surface so that the end and side are flush along its entire length.



CAREFULLY Drill through the 2 x marker points in the Extender Surface and secure with 2 x TX25 Screws.



Repeat on the Left Side.

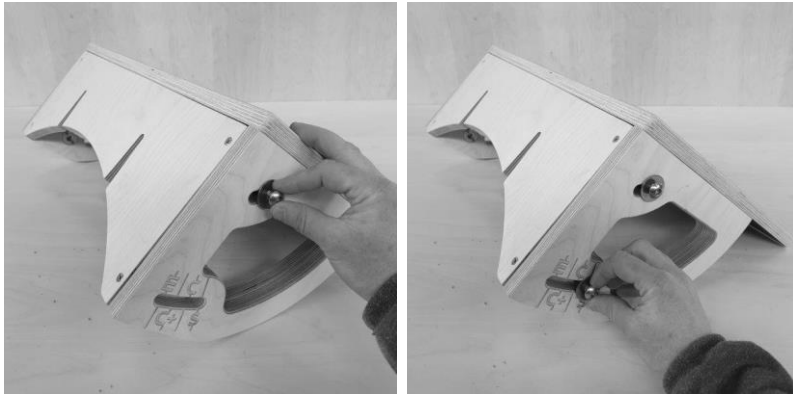


STAGE 4:

Place the External Side Plates and the Extender Surface OVER the Back Plate with Internal Side Plates.



Take the 4 x M10 x 40 Button Head Bolts and place these by hand through the outer holes and into the T Nuts. It is important to locate and start the thread to prevent CROSS THREADING the bolts.



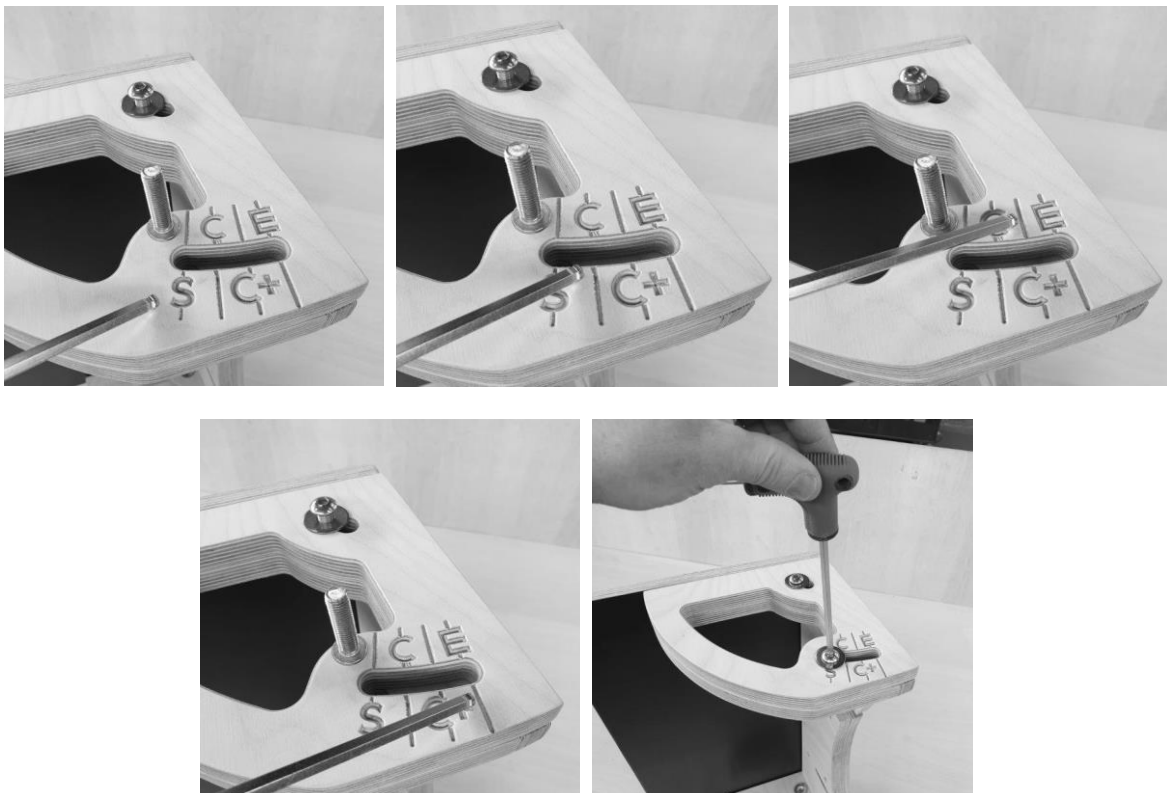
Repeat on the other side



STAGE 5:

- S = STRAIGHT
- C = CURVED
- C+ = CURVED PLUS
- E = EXTREME / FULL EXTENT OF TRAVEL / FREERIDE MODE

The EXTENDER SETTING should match the EXPERT RAMP ANGLE SELECTED!



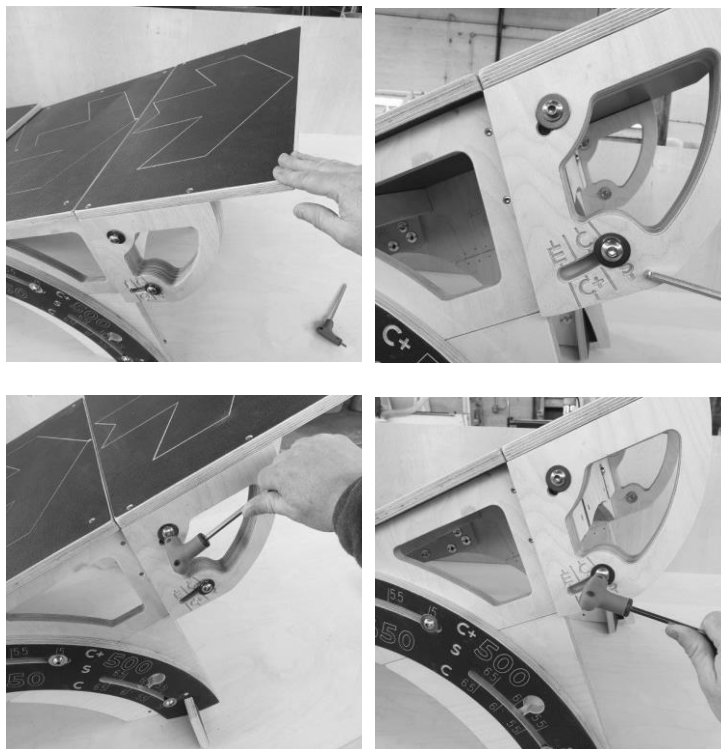
Tighten the bolts on both sides so the two components can still move freely!

STAGE 6:

Place 2 x M10 x 60 mm Button Head Bolts and 2 x Large Washers into the Back Plate of your EXPERT RAMP or 500 CORE CURVED or STRAIGHT Ramp. Hook the EXTENDER onto the bolt ensuring the washers are mounted on the face at the TOP of the slots. Check to ensure the join is closed and level and tighten the bolts to 12 Nm.



TILT / MOVE the EXTENDER to the SAME SETTING as your EXPERT OR CORE Ramp and secure on both sides by tightening the bolts to 12 Nm.



IMPORTANT:

Go around ALL the bolts on the ramp and check they are secure at 12 Nm. This first example shows the ramp set in STRAIGHT MODE with the EXTENDER ATTACHED. Please remember that the EXTENDER must not be used as a landing ramp. Please remember to use the PEG anchor points at the front of the ramp for EXTRA security.



STAGE 7:

EXAMPLE: Changing the angle of the EXTENDER. Set your EXPERT Ramp to CURVED Plus MODE at the height you would like to JUMP. Loosen the bolts on the extender on both sides. TILT / MOVE the Extender to the angle of the ramp. In this example the setting is the C+ line.



Tighten the bolts to 12 Nm and then check all bolts on the Ramp and Extender are secure at 12 Nm. You are now ready to jump at CURVED PLUS MODE at the height chosen. Please remember to use the PEG anchor points at the front of the ramp for EXTRA security.



TERRAIN ADJUSTMENT

Progression ramps allow you to adjust the 4 Legs independently to level the ramp on uneven terrain. Just set the ramp up in the MODE / Transition / height setting you require. Sit the ramp in the location you plan to jump and make the necessary adjustments checking all bolts again before jumping. Core Ramps also have a small amount of adjustment.

STORING YOUR RAMP – KEY POINTS TO REMEMBER

Your ramp should be stored in a dry location. Shipping Containers are terrible for humid, warm and cold conditions that are perfect for growing mould and mildew. Birch Plywood (and other sheet materials) are prone to these growths if it is not treated.

Your ramp CAN BE used outside in the rain and in wet grass but if you would like your ramp to last a lifetime bring it inside after use. We strongly recommend treating your ramp with a preservative. Please see below.

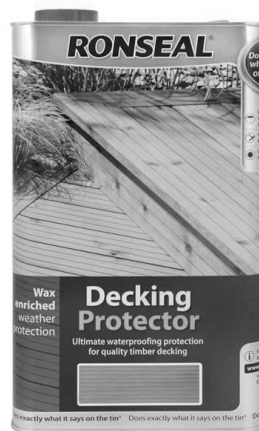
Never leave your ramp in the transport bag if it has been used in wet grass or in the rain.

SENDER TRANSPORT BAG

Our Transport bags are manufactured in the UK. They are strong but not indestructible. The webbing straps are double welded but you must avoid picking the ramp up with one strap! Use the Lifting Loop and a strap at the same time to mount the ramp on your bag.

TREATING YOUR RAMP WITH A PRESERVATIVE

It is not essential to use a preservative but it will greatly increase the longevity of your ramp and prevent unsightly marks. NEVER use a varnish. Use a water based protector. These are very easy to apply as long as you use a wet, then dry cloth to remove the excess from all BROWN Surfaces. It leaves a waxy film that peels in the rain! You should coat / treat all cut edges, all birch faces and any holes / routed text. Preferably twice! And again annually or biannually. A Clear or Natural Colour should not YELLOW the wood. Ronseal LOW VOC Decking Protector easily and quickly soaks in and dries leaving an effective barrier.



DISPOSING OF YOUR RAMP

You should remove all screws / nuts and bolts and place these in metal recycling. You must put the plywood in the wood recycling.

BETTER! Get in touch for new parts or one of our refresh kits! This will allow you to keep using the ramp or even sell the ramp to another user. This is by far the MOST ENVIRONMENTALLY FRIENDLY SOLUTION.

Thanks again – We hope you enjoy the process of building your ramp and then making fast progress to new skill levels and greater confidence on the trail!

Scott and Team

You can get expert advice at Sender. Do not hesitate to contact us. You can also order replacement parts. This keeps your purchase environmentally friendly and keeps you rolling.

Please subscribe to our YouTube Channel **Sender Ramps** for notifications when we upload new films. If you need advice or help please contact us direct support@sender-ramps.com