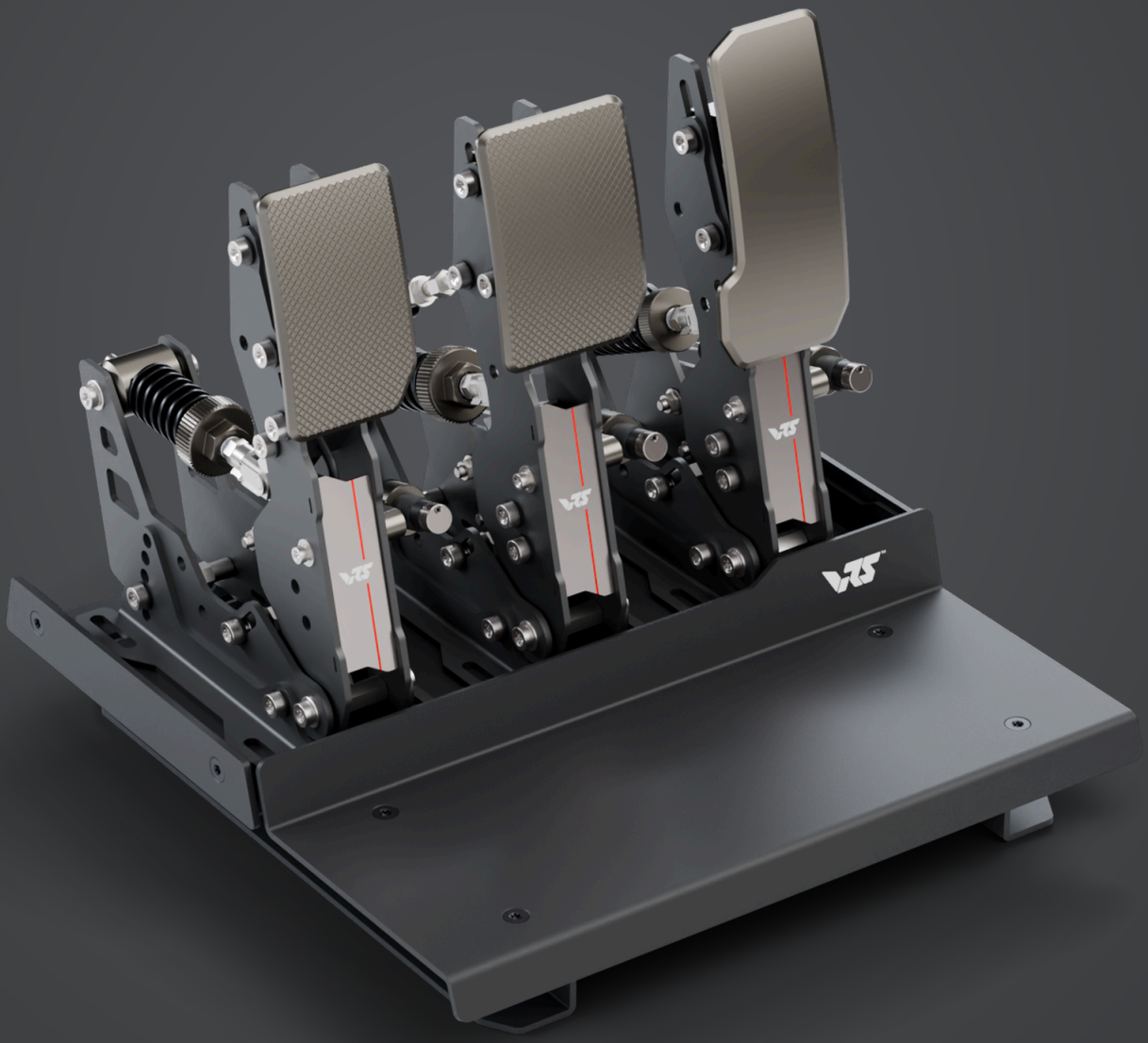
DirectForce® Pro G2
Baseplate



User Manual

Foreword

This manual contains essential safety and usage instructions.
If you can't locate the information you need or notice any discrepancies, please visit our website or contact us for assistance.

VIDEO TUTORIAL

Watch the assembly video

Step-by-step assembly of the G2 Baseplate. Scan the code or open:
https://www.youtube.com/watch?v=VEpgmPHh-lo

Website
https://vrs.racing

Downloads
https://vrs.racing/downloads

Contact us
https://vrs.racing/contact

Discord server
https://discord.gg/4BQJDPJUDc

Product information

Product: VRS® DirectForce® Pro G2 Baseplate

Product	Contents
G2 Baseplate	Baseplate parts for self-assembly, fasteners, 2 hex keys

Works with

Product
DirectForce Pro G2 Throttle & Brake, Sport or Elite
DirectForce Pro G2 Clutch, Sport or Elite

Requires

A sim racing rig or cockpit with a pedal deck mounting surface.

Warranty

Three year limited warranty. For support and warranty information, visit https://vrs.racing. By using this product, you agree to the VRS Warranty and Terms of Use, available at https://vrs.racing/legal-documents

Made in Bulgaria

Responsible Party:
Smarty Co. 120 Vantis Drive, Suite 300, Aliso Viejo, CA 92656, United States
+1 866-746-3888 info@vrs.racing

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Warnings

Before installing the VRS® DirectForce® Pro G2 Baseplate, read the instruction manual for important safety information.

- This product is intended for indoor use only.
- Ensure the baseplate is firmly bolted to your rig before use.
- Check all fasteners are tight and the baseplate does not move under load. Re-check fasteners regularly.
- Do not exceed the maximum load of 16 kg, see page 16.
- Heavy item. Take care when lifting and installing. Edges may be sharp.
- Do not stand on the baseplate or use it as a step.
- Modifying the baseplate (drilling, cutting, welding) voids your warranty.
- Choking hazard: contains small parts. Not suitable for children.

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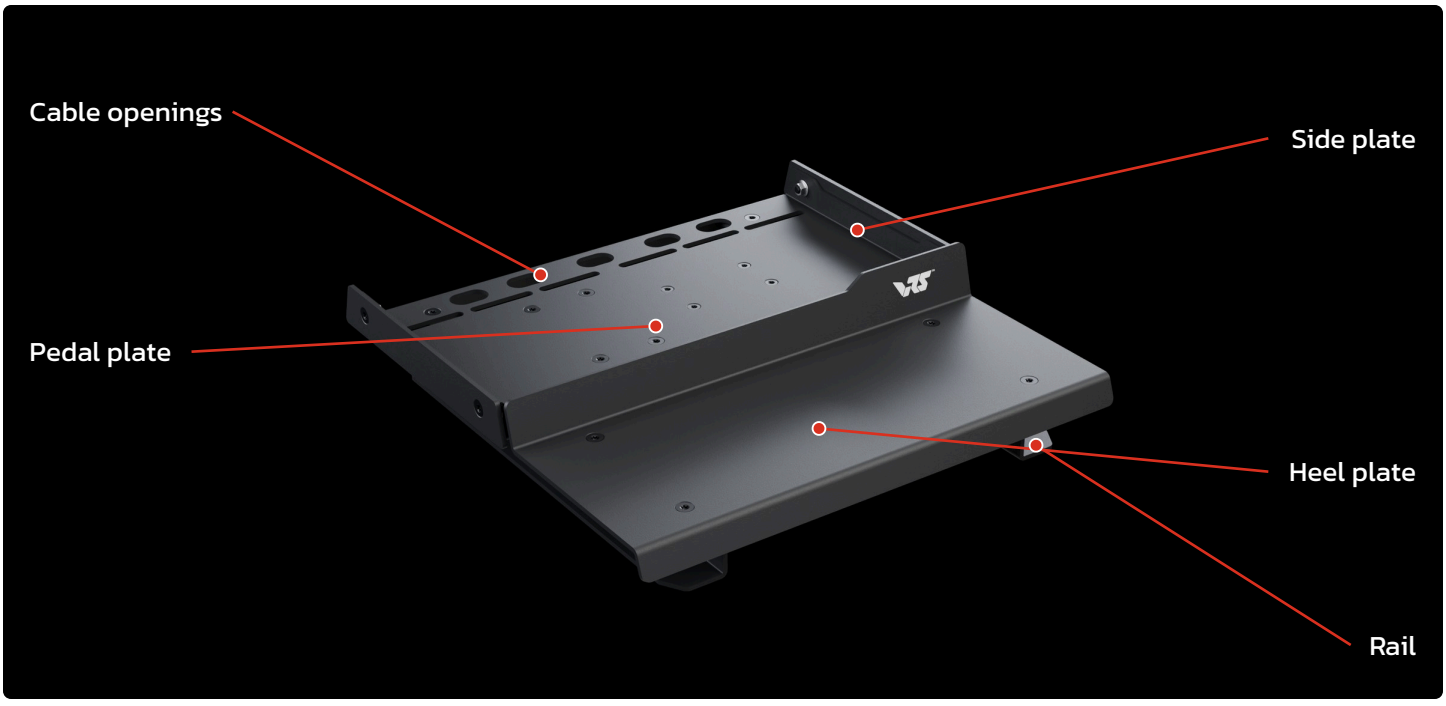
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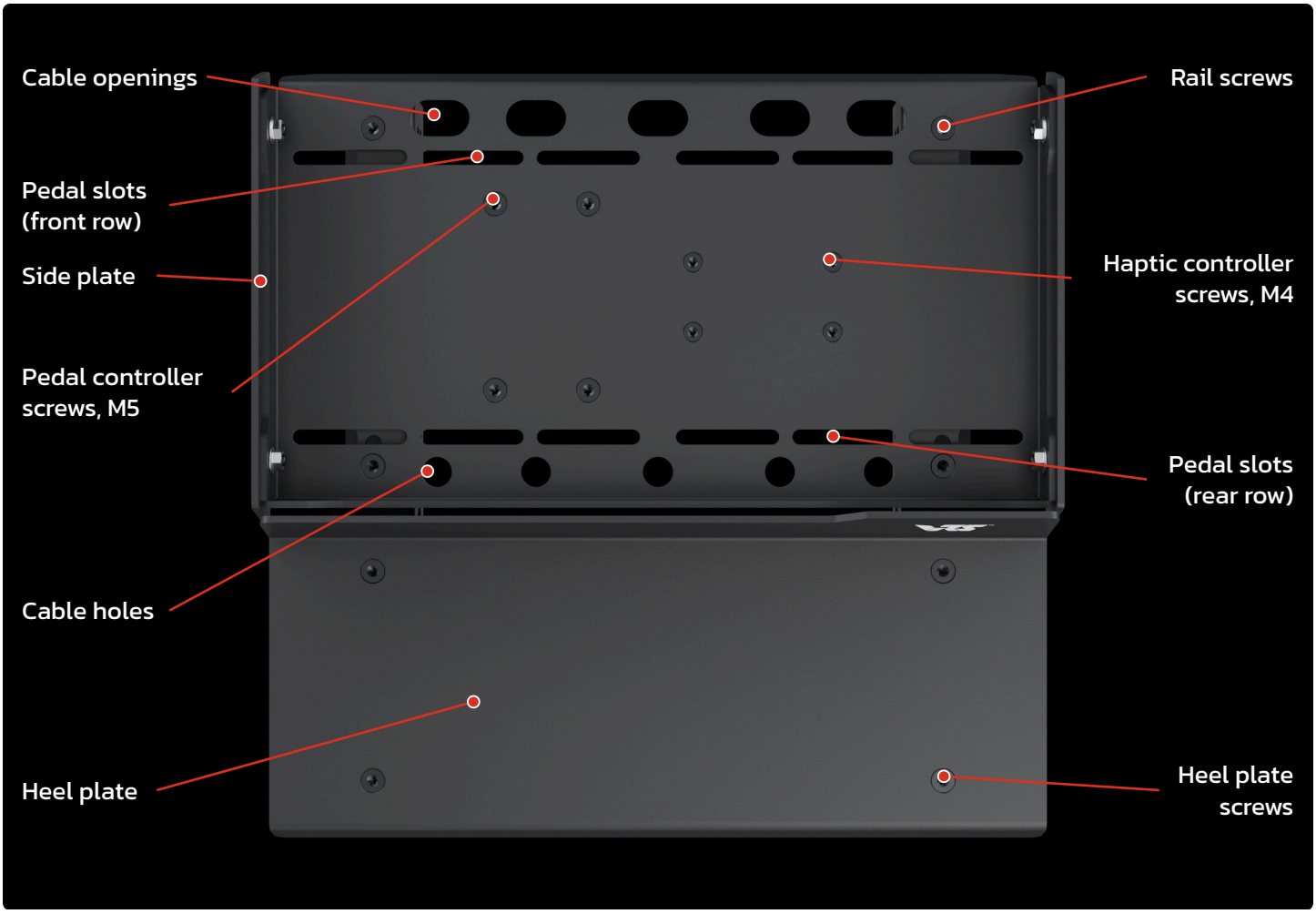
Features

- One plate for the throttle, brake and clutch: bolt the pedals to the baseplate, then the baseplate to your rig
- Two rows of slots, 120 mm apart, that match the 70 × 120 mm footprint of every G2 pedal
- Slide each pedal sideways along the slots to set your spacing, no drilling
- Angled heel plate for a stable heel position
- Mounting points for the VRS® Pedal controller and a haptic controller, under the plate
- Cable openings behind the pedals
- Two steel rails with 8.5 mm holes and slots every 26 mm for M8 rig bolts
- 3 mm laser-cut steel in black structure powder coat



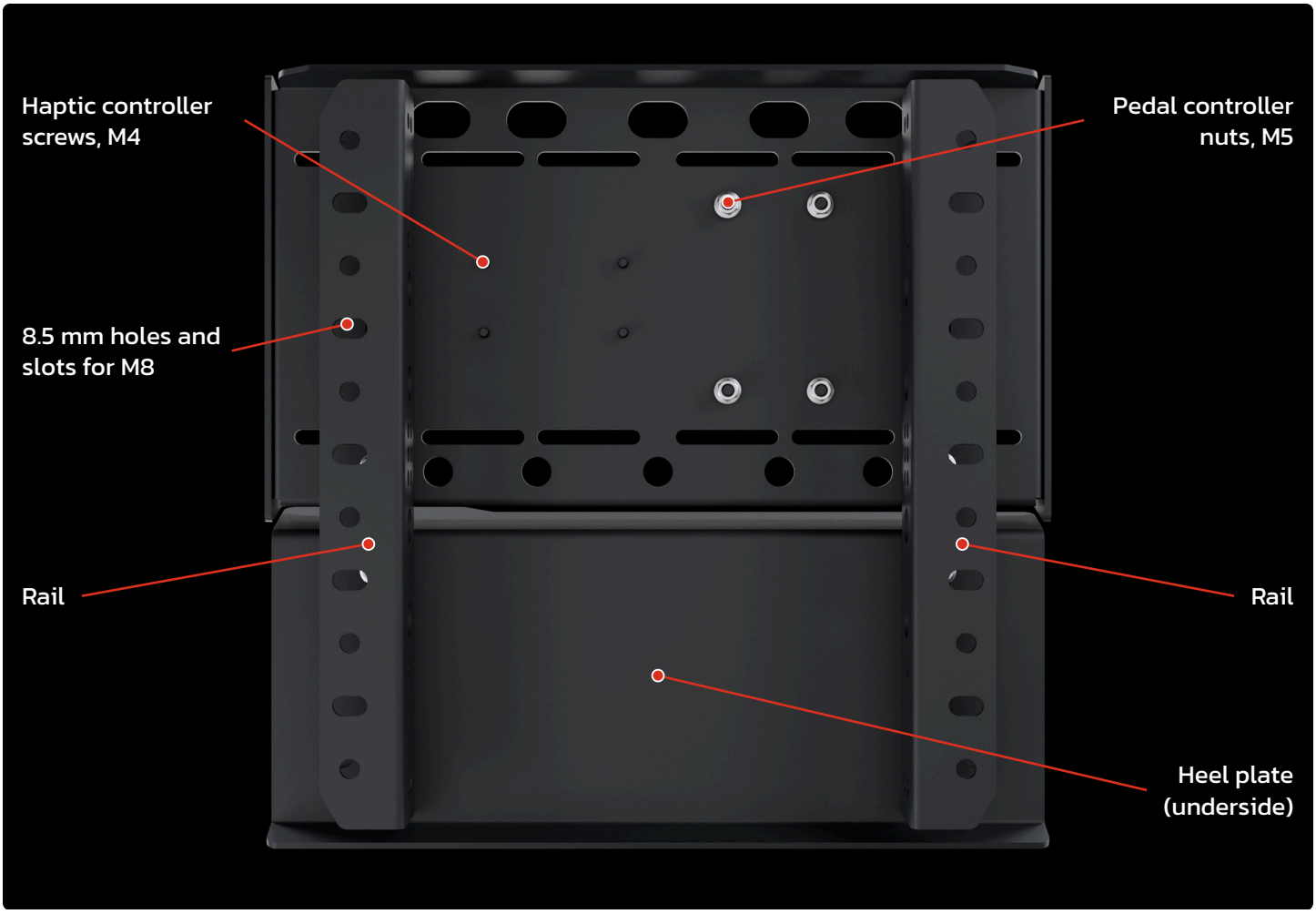
Overview

Top view, driver side at the bottom.



Bottom view

The baseplate turned over. The rails are the only parts that touch your rig.



What's in the box?

The baseplate comes as a kit of parts. Assemble it before use, see page 10.

Part	Qty
Pedal plate	1
Heel plate, with VRS logo	1
Rail	2
Side plate	2
M5 × 12 countersunk screw, black, pre-applied threadlock	16
M5 flange nut, A2 stainless	16
M4 × 8 countersunk screw, black, pre-applied threadlock	4
M4 flange nut, A2 stainless	4
Hex key	2

Note Of the 16 M5 screws, 12 assemble the baseplate and 4 hold the VRS® Pedal controller. The 4 M4 screws are for a haptic controller. The pedals are not included.

Tools you will need

Tool	Used for
3 mm hex key (included)	M5 countersunk screws
2.5 mm hex key (included)	M4 countersunk screws
8 mm spanner	Holding the M5 flange nuts
7 mm spanner	Holding the M4 flange nuts
Torque wrench, 2.5–25 Nm	Final tightening: M5 4 Nm, M4 2.5 Nm
Tools for your M8 rig bolts	Mounting the baseplate to the rig
5 mm hex key, 10 mm spanner	M6 mounting screws of the G2 pedals (supplied with the pedals)

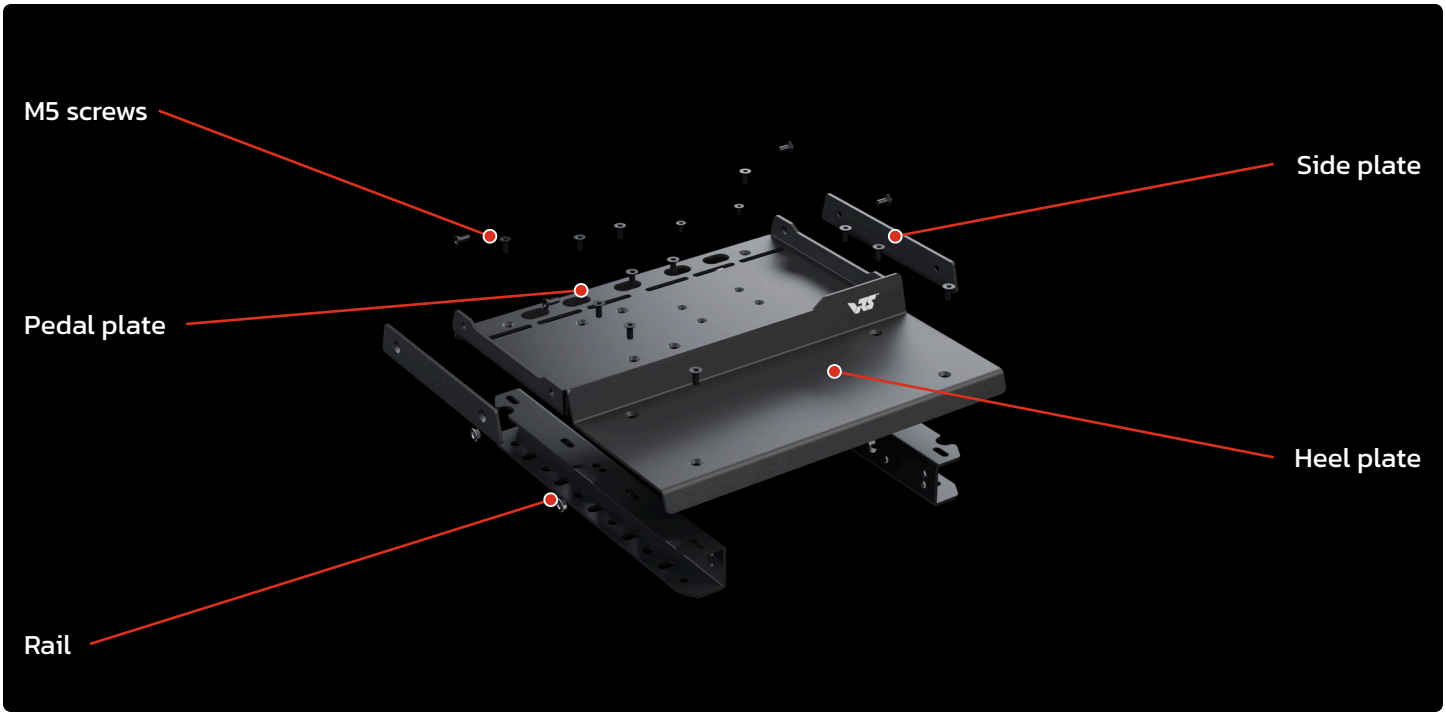
Note The screws have threadlock applied at the factory. If you remove a screw, add a drop of medium-strength threadlock before refitting it.

Assembling the baseplate

Assembly video Watch it before you start (QR code on page 2):
https://www.youtube.com/watch?v=VEpgmPHh-lo

Work on a flat surface. Insert every screw from the top or outside and turn its flange nut on by hand first, then tighten.

1. **Heel plate:**
   Place the heel plate on the 2 rails as shown. Insert 4 M5 screws through the countersunk holes and turn the flange nuts on by hand. **Do not fully tighten the screws yet.** Leave them loose until the pedal plate is also in place, so the holes of both plates line up with the 2 rails.
2. **Pedal plate:**
   Place the pedal plate on the 2 rails, against the heel plate. Insert 4 M5 screws and turn the flange nuts on by hand. **Make sure the rails are parallel and both plates lie flat, then tighten all 8 screws to 4 Nm.**
3. **Side plates:**
   Mount the 2 side plates on the outside of the pedal plate, with 2 M5 screws and 2 flange nuts each. Check that the side plates line up with the rails, then tighten to 4 Nm.
4. **Check:**
   Check that all 12 screws are tight and the baseplate sits flat without rocking. Fit the pedal controller now, while the underside is easy to reach (page 11).



Controllers and cables

The VRS® Pedal controller and a haptic controller mount **under** the pedal plate, between the rails, where they are protected. The screws go in from the top, so their heads sit flush in the plate under the pedals.

	Pedal controller	Haptic controller
Screws	4 × M5 × 12 countersunk, 3 mm hex	4 × M4 × 8 countersunk, 2.5 mm hex
Nuts	4 × M5 flange nuts, 8 mm	4 × M4 flange nuts, 7 mm
Torque	4 Nm	2.5 Nm

1. **Insert the screws:**
   Put 4 M5 screws into the controller holes of the pedal plate from the top (see page 7). The plate has more holes than the controller uses, so use only these 4.
2. **Fit the controller:**
   From below, put the 4 holes of the controller tabs over the screws, with the pedal ports toward the pedals and the USB port toward the heel plate.
3. **Tighten:**
   Turn the flange nuts on by hand, then hold each nut with an 8 mm spanner and tighten the screw to 4 Nm.
4. **Connect the pedals:**
   Run each pedal cable through the cable openings to the controller, plug it in and fix the cables with ties so they cannot reach a moving part.



Seen from below: the controller tabs go over the 4 M5 screws, then the flange nuts.



Mounted between the rails, USB port toward the heel plate.

Note A haptic controller mounts the same way on its 4 M4 screws, tightened to 2.5 Nm.

Mounting the baseplate

1. **Plan the position:**
   Place the baseplate on your pedal deck with the heel plate toward your seat. Sit in the rig and check your heels rest on the heel plate with your legs comfortably bent.
2. **Line up the rails:**
   Each rail has a row of 8.5 mm holes and slots for M8 bolts, every 26 mm along its 310 mm length. The two rows are 255 mm apart, and the slots let you set 249 to 261 mm, so the baseplate fits most aluminum profile and plate decks.
3. **Bolt it down:**
   Use at least 2 bolts in each rail, near the front and near the rear. Tighten them evenly so the rails sit flat on the deck.
4. **Check it:**
   Push hard on the plate in every direction. The baseplate must not move or rock. If it does, add bolts or shim the rails so they sit flat.



Bottom flange of a rail: 8.5 mm round holes and slots alternate every 26 mm.

⚠ Use bolts and nuts rated for the load. Check the rig bolts again after your first drive and then regularly.

Mounting the pedals

1. **Choose the layout:**
   See the layouts on the next page. The G2 pedals sit 105 mm apart, center to center.
2. **Place the pedal:**
   Set the pedal on the plate with its face toward the heel plate. Line up its 4 mounting slots with the two rows of slots in the plate.
3. **Bolt it:**
   Use the 4 M6 × 25 screws, washers and flange nuts supplied with the pedal. Put the screws in from the top and the flange nuts under the plate, then tighten them evenly.
4. **Check the movement:**
   Press each pedal through its full stroke. Nothing should touch the neighboring pedal, the side plates or the cables.



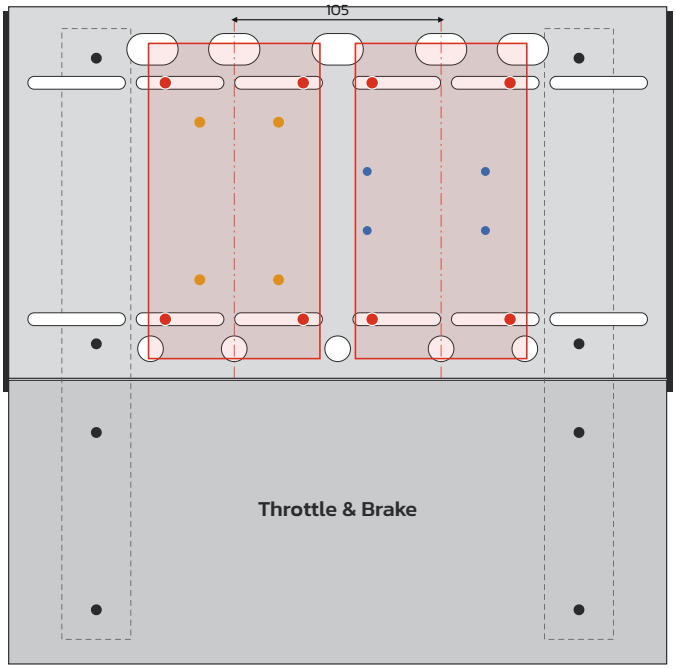
G2 Throttle & Brake on the baseplate, seen from the driver's seat.

Note The plate slots run sideways and the pedal foot slots run front to back. Together they let you place each pedal anywhere along the rows and adjust it forward or back by 25 mm.

Cables Route each load cell cable to the pedal controller through the cable openings, and leave enough slack for the full pedal stroke. See page 11.

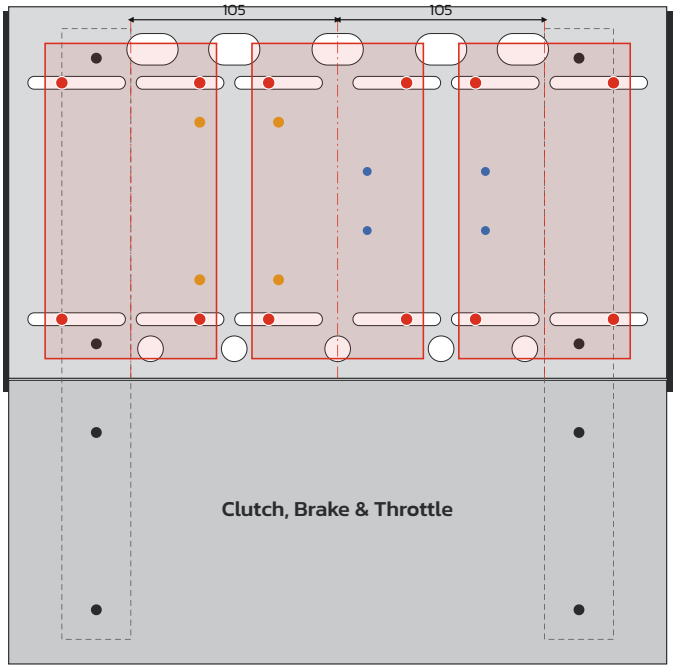
Pedal layouts

Red: G2 pedal footprint and its 4 M6 bolts. Dimensions in mm.



DRIVER SIDE

2 pedals: brake 52.5 mm left of center, throttle 52.5 mm right.



DRIVER SIDE

3 pedals: clutch on the left, brake in the center, throttle on the right.

● Plate screws ● Pedal controller screws, M5 ● Haptic controller screws, M4 ---- Rails, under the plates

Note These are the standard layouts. Any spacing works as long as every pedal bolt lands in a slot and the pedals do not touch.

Care and troubleshooting

Care

- Wipe the baseplate with a soft, dry or slightly damp cloth. Do not use solvents or abrasive cleaners on the powder coat.
- Check the rig bolts, pedal bolts and baseplate screws from time to time, and tighten any that have loosened.
- Check the cables for wear where they pass through the openings.
- Touch up chips in the powder coat to stop rust on the steel.

Troubleshooting

Problem	What to do
The baseplate moves or creaks under braking	Tighten the rig bolts. Use more bolts per rail and check that both rails sit flat on the deck.
A pedal moves on the plate	Tighten its 4 M6 bolts evenly. Check that the washers sit flat over the slots.
A pedal touches its neighbor or a side plate	Slide it along the slots to a wider spacing, see page 14.
A pedal reads wrong after mounting	Check that its cable is not pulled tight at full stroke, then run the calibration in VRS One.

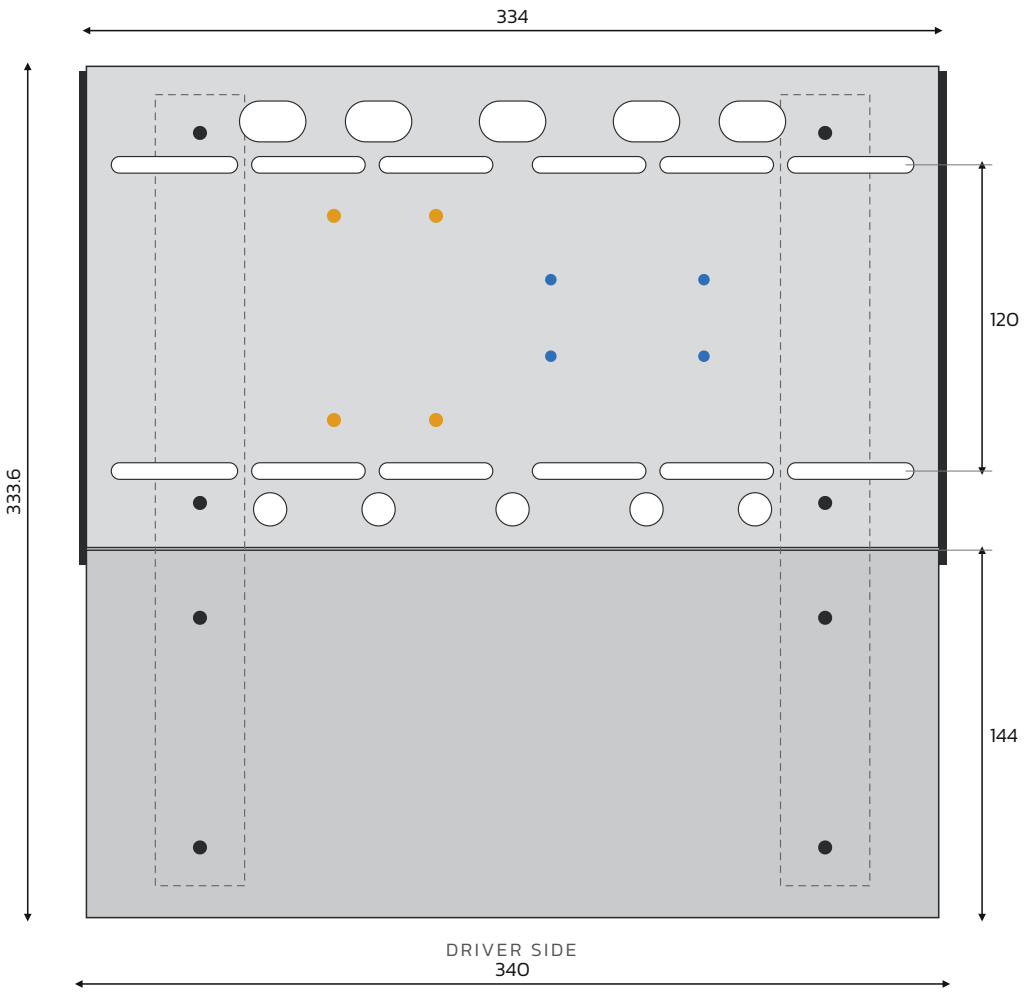
Still stuck? Our support team and the community can help. See the links on the last page of this manual.

Specifications

General	
Material	3 mm laser-cut steel
Finish	Black structure powder coat
Parts	Pedal plate, heel plate, 2 rails, 2 side plates
Fasteners	Black M5 and M4 countersunk screws with pre-applied threadlock, A2 stainless flange nuts
Pedal mounting	2 rows of 6.5 mm slots, 120 mm apart, for M6. Fits the 70 × 120 mm G2 footprint
Pedals	Up to 3 G2 pedals, 105 mm between centers
Rig mounting	8.5 mm holes and slots for M8, every 26 mm along each rail. Rails 255 mm apart (249–261 mm on the slots)
Controller mounting	VRS® Pedal controller (4 × M5) and haptic controller (4 × M4), under the pedal plate
Weight	4.5 kg, assembled
Maximum load	16 kg

Fastener	Tool	Torque
M5 baseplate and pedal controller screws	3 mm hex, 8 mm spanner	4 Nm
M4 haptic controller screws	2.5 mm hex, 7 mm spanner	2.5 Nm

Dimensions



Overall	340 × 333.6 × 77.5 mm (width × depth × height)
Pedal plate	334 × 188.6 mm
Heel plate	334 × 144 mm
Rails	310 × 35 × 40 mm C-channel, 3 mm steel
Side plates	193.2 × 28 mm

Dimensions in mm. Specifications subject to change without notice.

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