

B.E.D. Outback

Assembly Guide



Standard wheelbase · **52 printed parts** · **129 screws** · **8 magnets** · about **3 hours** to assemble · pictures are taken from the CAD model of the bed

Printed kit or file package? This guide covers both. The **printed kit** arrives as finished parts with the screws and magnets in the box. The **file package** is the same bed as print files: you print the parts and supply the hardware. Lines marked **KIT** apply only to the printed kit, **FILES** only to the file package, and **LIGHTS** only if you are fitting lights. Everything unmarked applies to everyone.

Before you pick up a screwdriver. Every screw in this build threads straight into printed plastic. Drive each one until the head sits flush, then stop. If you feel the screw go loose, it has stripped. Back it out and drive it again at a slight angle so it bites fresh plastic. Never use a longer screw than the step calls for. It will hit bottom or break through the far side.

FILES **Printing the parts.** Open the .3mf that comes with the package in Bambu Studio: the print settings and plate layouts are already chosen, and every part fits a 256 mm bed. Slicing the STLs yourself? Keep them in the orientation they come in, which is chosen for supports, and print the quantities in the bill of materials. We print ours in carbon-fibre PETG; plain PETG or ASA also work. PLA prints easily but softens in a hot truck cab or in the sun, so we would not use it for parts that live outdoors. Clean up before you build: step 1 covers supports and screw holes.

Bill of materials

ITEM	QTY	NOTES
Printed parts KIT finished parts in the box · FILES you print them; Qty is how many to print		
Bed cover, driver side	1	
Bed cover, passenger side	1	
Bed floor	1	
Front bed cover	1	
Front bedside, driver side	1	
Front bedside, passenger side	1	
Headache rack, driver half	1	

ITEM	QTY	NOTES
Headache rack, passenger half	1	
Light bracket, driver side	1	
Light bracket, passenger side	1	
Pass-through cover	1	
Rack hexagon cover	1	
Rack wire cover, driver side	1	
Rack wire cover, passenger side	1	
Rear bed cover	1	
Rear bedside, driver side	1	
Rear bedside, passenger side	1	
Rear wiring tray cover	1	
Rub rail, driver side	1	optional
Rub rail, passenger side	1	optional
Stakeside, driver side	1	
Stakeside, passenger side	1	
Taillight cover, driver side	1	
Taillight cover, passenger side	1	
Rear tailgate (rear stakeside)	1	press-fit legs, no fasteners
Drawer	1	2 magnets
Gooseneck cover	1	2 magnets
Fuel cap	1	1 × M2×6
Taillight lens	6	1 × M2×8 each
Taillight LED retainer	6	
Rack light ring	6	
Rack light lens	6	1 × M2×10 each; holds LED and ring
Body spacers, set for your body	1 set	three sets exist: Honcho , SR5 , F250 . You need only the set for the body you are running; count and shape differ by body. FILES print only that set

ITEM

QTY

NOTES

Hardware **KIT** in the box · **FILES** you buy these; the screw list below has the lengths and counts

M2 countersunk self-tapping screws	129	KIT 400-piece assortment, 50 of each length 4–20 mm; 271 spare
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Magnet 5 × 5 × 2 mm, neodymium block	8	drawer 4, gooseneck cover 4
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Lights, optional not included with the printed kit or the file package; buy them or use your own

LED 5 mm, 12 V	12	6 taillights, 6 rack lights
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JST pigtail pair (1 female + 1 male)	2 pair	female on the lights (one for all taillights, one for all rack lights); male to the 12 V supply. Any connector you like works instead
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From your truck reused from the stock SCX6 Honcho rear cage; same for both

M4 screws + washers	6	through body, washer, spacer, into the bed front
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Shoulder bolts	1 set	bed to frame
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KIT **Screw kit.** Your box has a 400-piece M2 flat-head assortment: 50 of each length from 4 to 20 mm, sorted by length. You will use 129 of them. 271 are spare, and M2×4, M2×5 and M2×20 are not used at all.

FILES **Screws to buy.** M2 countersunk (flat-head) self-tapping screws, the type made for plastic. You need 129: 18 × M2×6, 32 × M2×8, 41 × M2×10, 24 × M2×12 and 14 × M2×16. Get a few spare of each length. The common 4–20 mm assortment boxes with 50 per size cover the whole build with plenty left over. Any drive type is fine; use one bit for the whole build.

The ruler shows every size at actual size when this page is printed at 100%; hold a screw against it if you are unsure. Lengths include the head.



Tools. The driver bit that matches your screws, a clean mat, and a 9 V battery if you are fitting lights. **Long-handled tweezers** earn their place on the mat: they lift a screw out of the tray and hold it upright while you start it, which is most of the fiddly work in this build. Fine-nose pliers do the same job. **FILES** Add flush cutters or a hobby knife for support clean-up and a strip of sandpaper for the press fits.

Optional: lights. Lights are not included with the printed kit or the file package. The bed takes twelve 12 V 5 mm LEDs, six in the taillights and six in the headache rack, and two JST pigtail pairs, each one female and one male, or any connectors you prefer. All six taillights go to one female plug; all six rack lights go to the other. You wire the two male plugs to a 12 V supply of your choice. Steps that touch the lights are marked **LIGHTS**. Skip those lines if you are building without lights; everything else is the same.

Screw cheat sheet

SIZE	USE	KIT SPARE	WHERE IT GOES
M2×4	0	50	Not used (spare)
M2×5	0	50	Not used (spare)
M2×6	18	32	step 2 (1); step 4 (2); step 10 (7); step 16 (4); step 19 (4)
M2×8	32	18	step 3 (6); step 4 (4); step 5 (4); step 6 (18)
M2×10	41	9	step 4 (4); step 7 (8); step 9 (2); step 10 (3); step 11 (18); step 14 (6)
M2×12	24	26	step 9 (6); step 12 (2); step 15 (8); step 17 (8)
M2×16	14	36	step 12 (10); step 13 (2); step 18 (2)
M2×20	0	50	Not used (spare)

KIT Every size comes 50 to a bag; the spare column assumes that assortment. Screw lengths include the head. Colours match the "You need" strip and the dots in every picture.

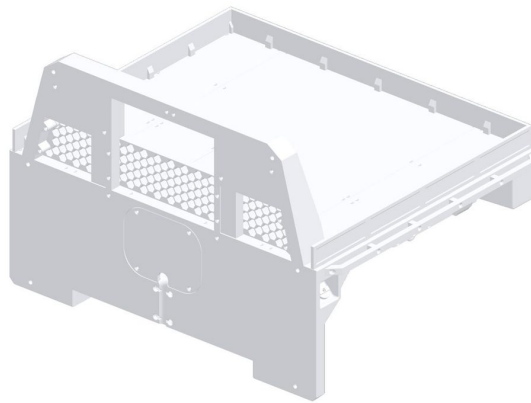
Reading the pictures

Yellow parts are the ones you add in that step. Dark grey parts are what they screw into. Pale parts are already fitted. Each dot is one screw. The number beside it is the screw length in millimetres, and the arrow shows which way it goes in, so you never have to rely on the colour. A hollow dot means the screw head is on the far side of the part from where the picture is taken. A black square is a magnet pocket. A dot marked M4 is a body-mount hole for the stock Honcho hardware.

01

0
SCREWS

Check the parts and the screws



YOU NEED No screws in this step

1. Lay every printed part on a clean mat and tick it off the bill of materials above: 52 parts plus your spacer set.
2. **FILES** Remove all supports and clear every screw hole, magnet pocket and press-fit slot of remnants. A screw that will not start is almost always sitting on support material. Do not drill the holes larger; the screws cut their own thread.
3. **KIT** The screws come sorted by length in the box. Leave them in their slots and check each one against the ruler above before you drive it; sizes can shift in shipping.
4. **FILES** Sort your screws by length into a tray before you start, and check each length against the ruler above; assortment boxes are not always labelled accurately.
5. Spacers are body-specific: **Honcho**, **SR5** or **F250**. Have the set for your body ready; you fit it at step 21.
6. **FILES** Print only the spacer set for your body. Count and shape differ between bodies.
7. **LIGHTS** Decide now if you are fitting lights. The light lines are marked like this one. Skip them if you are not.
8. **LIGHTS** Test every LED before it goes in. Touch the long leg to + and the short leg to – on a 9 V battery. It should light. A dead LED is far easier to swap now than after the covers are on.

☐ **Check:** All 52 printed parts, the spacer set for your body, and the 8 magnets are present.

Build the bed body

02

1
SCREW

Fit the fuel cap

One screw, driven at an angle. Easiest now, while the front bedside is a loose part you can hold.



YOU NEED M2×6 ×1

1. Set the fuel cap on the driver-side front bedside, over the round door.
2. Drive one M2×6 through the cap into the bedside. The hole is angled; follow it.

☐ **Check:** The cap sits flat and does not spin.

03

6
SCREWS

Fit the taillights

Do this while the rear bedside are still loose. Picture is the driver rear bedside seen from the inside, the face that will meet the floor.



YOU NEED **M2×8** ×6

1. Push each of the three lenses into its pocket on the outside of the rear bedside. Turn each lens so its screw hole sits at the 6 o'clock position, straight down. That is the only position where the retainer screw can capture it from the back.
2. **LIGHTS** Push a tested 12 V 5 mm LED into each of the three retainers. Keep the long leg on the same side for all three.
3. Set a retainer behind each lens on the inside of the bedside.
4. Drive one M2×8 through each retainer into the lens. Three screws.
5. **LIGHTS** Feed the three pairs of leads through the pass-through hole in the bedside so they come out on the inner face, toward the middle of the bed. Once the taillight cover goes on in the next step you cannot reach them.
6. Do the same on the passenger side. Six screws in all.

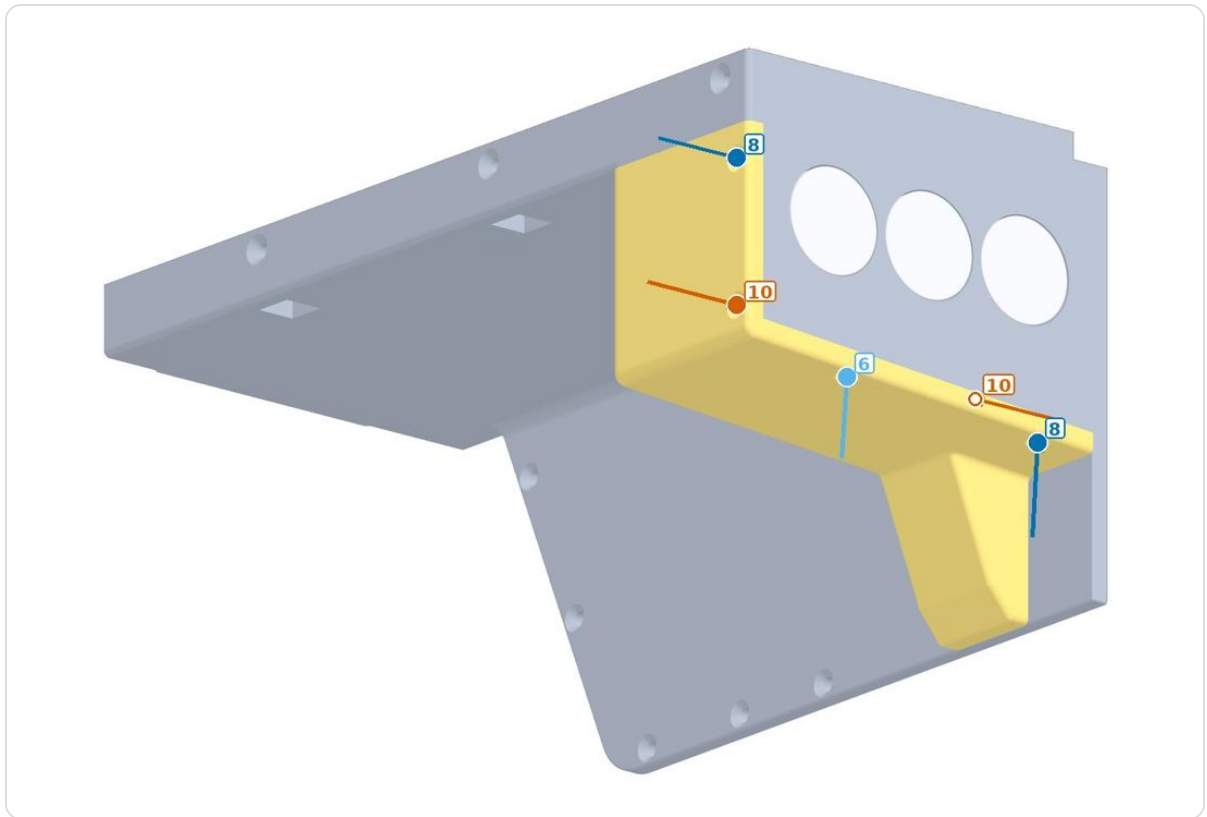
☐ **Check:** All six lenses sit flush from the outside and none rattle. The leads hang out on the inner face.

04

10
SCREWS

Fit the taillight covers

Picture shows the driver rear bedside from behind and below.



■ Parts you add now
 ■ Parts they attach to
 ■ Already fitted

YOU NEED M2×6 ×2 M2×8 ×4 M2×10 ×4

1. Hold the driver-side taillight cover in the rear corner of the bedside, inside the open box.
2. LIGHTS Keep the LED leads out of the way; they should already be out on the inner face.
3. From the back face, drive one M2×8 and one M2×10 into the bedside. The M2×10 is the lower one.
4. From underneath, drive one M2×6 in the hole nearest the middle of the bed and one M2×8 in the outer hole.
5. From the inner face of the bedside, drive one M2×10 into the cover.
6. Do the same on the passenger side.

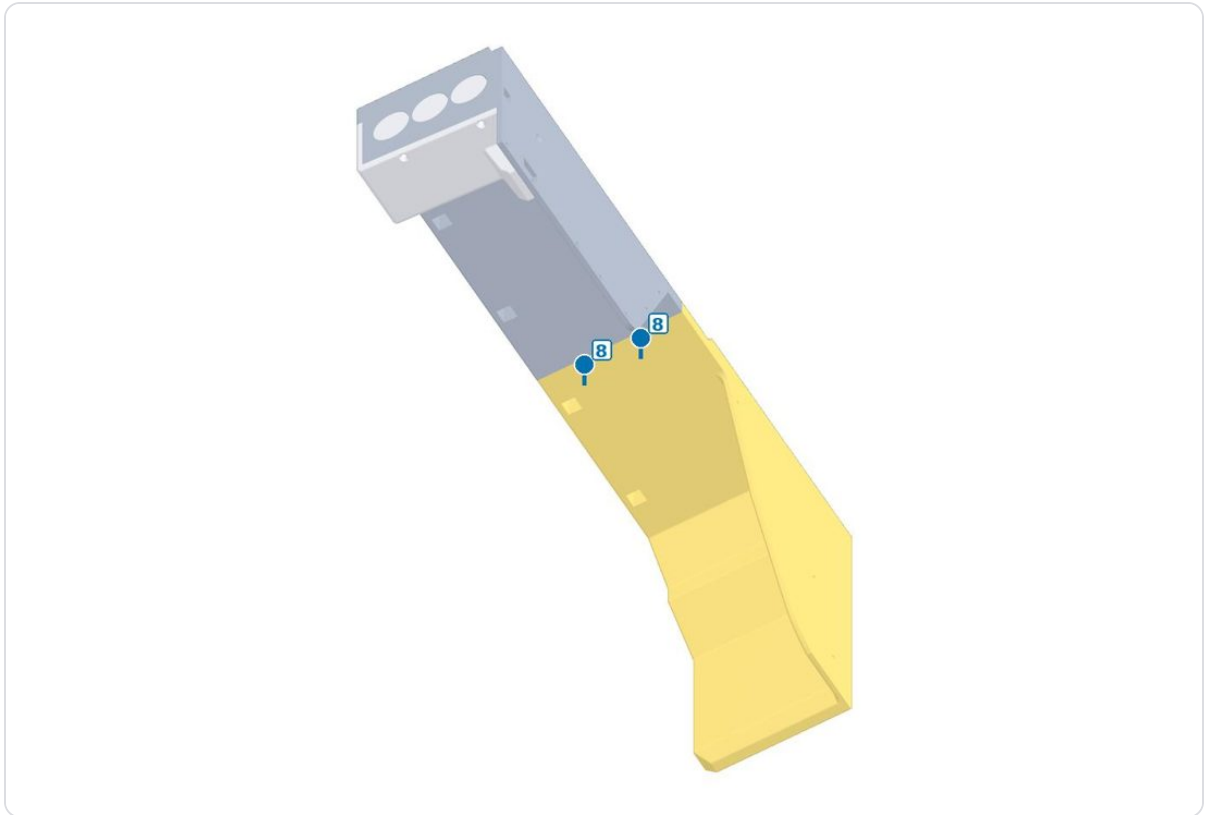
☐ **Check:** The cover sits flush and does not rock when you press a corner.

05

4
SCREWS

Join the front and rear bedsides

Drive upward from underneath. Picture shows the driver-side pair upside down, seen from below, with the taillight parts and fuel cap already on.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×8** ×4

1. Take the driver-side front bedside and the rear bedside you just built up. Slide them together so the seam closes.
2. Turn the pair upside down. Under the top rail at the seam, two holes face you.
3. Drive two M2×8 up into them.
4. Do the same on the passenger side.
5. Handle each bedside with care from here. It is long, and even with the screws in, the seam can flex until the bedsides are fixed to the bed floor. Support both halves when you pick one up.

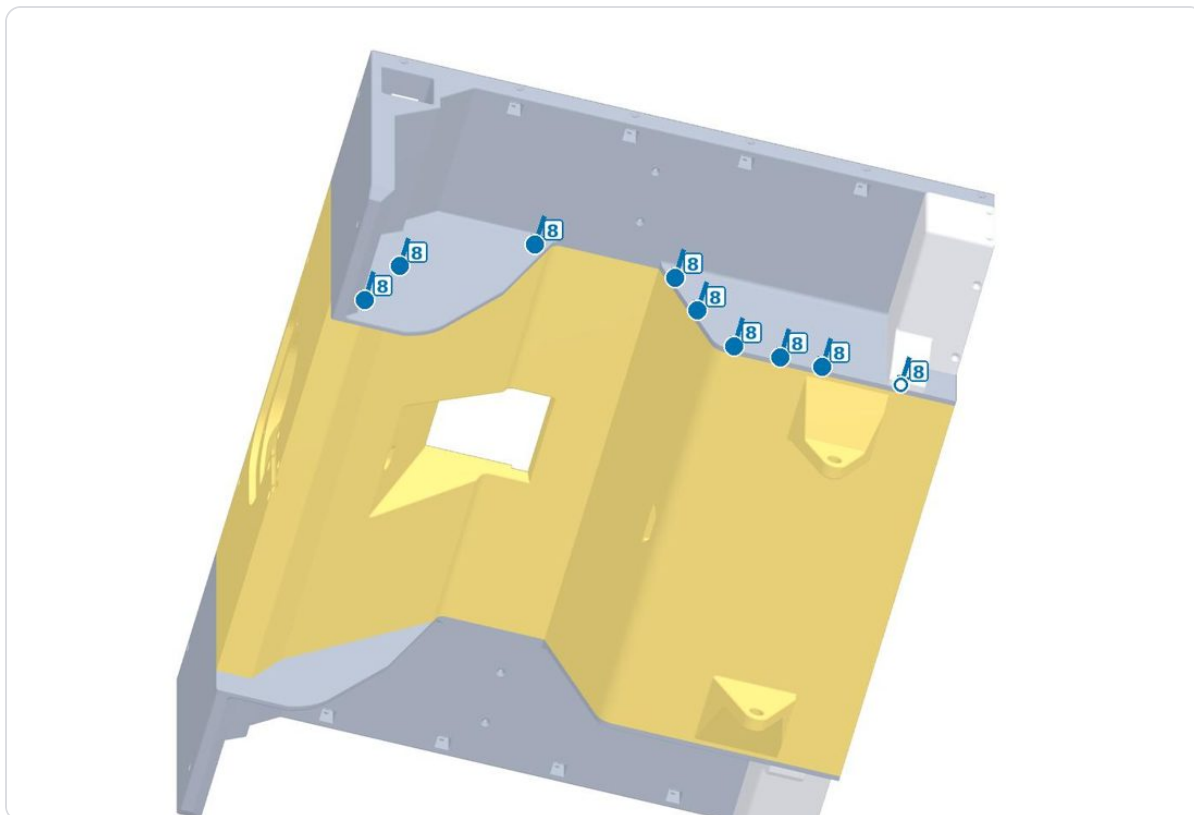
☐ **Check:** Each side is now one long bedside with no step at the seam.

06

18
SCREWS

Fit the bedsides to the bed floor

Drive sideways from inside the wheel well into the bed floor. Picture shows the bed upside down, driver side.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×8** ×18

1. Lay the bed floor upside down. Stand both bedsides against it and check the tops are level.
2. **LIGHTS** As each bedside goes on, keep all six LED leads clear of the joint between bedside and floor. A lead trapped here gets pinched and cut. Push the leads through the pass-through hole in the front face of the bed floor and leave them loose.
3. Turn the whole bed upside down. Each bedside is an open box underneath: the wheel well.
4. Reach into the driver-side wheel well. Nine holes sit on the inner wall, facing you.
5. Drive nine M2×8 sideways into the bed floor. Stop as soon as each head is flush.
6. These holes run deep into the floor. That is normal. The screw only needs to bite the first few millimetres. If you want more bite, a longer screw is fine here.
7. Do the passenger side with the other nine M2×8.

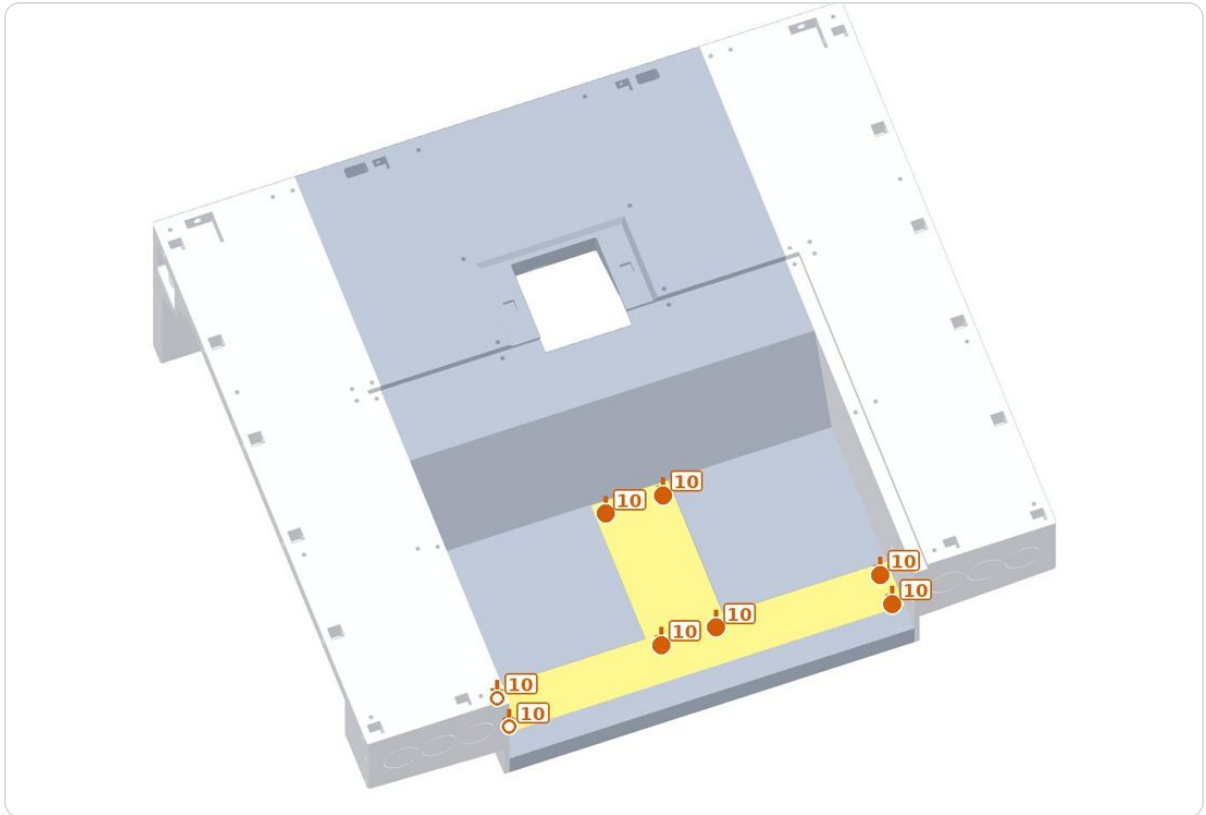
☐ **Check:** Both bedsides sit tight to the floor with no gap along the top. No lead is trapped in the joint.

07

8
SCREWS

Wire the taillights and close the wiring tray

Drive straight down from above.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×10** ×8

1. **LIGHTS** Solder the taillight LED leads from the driver and passenger bedsides to one female JST pigtail, or to a connector of your choice. All six lights share this one plug. Long legs to the positive wire.
2. **LIGHTS** Lay the wires in the tray and use the zip-tie channels moulded into it. A tie or two keeps the wires from creeping into the drawer bay.
3. **LIGHTS** Pass the JST pigtail through the pass-through so it exits under the bed floor.
4. Set the tray cover into the rear of the bed floor.
5. Drive eight M2×10 straight down, corners first.
6. **LIGHTS** Check no wire is pinched under the cover.

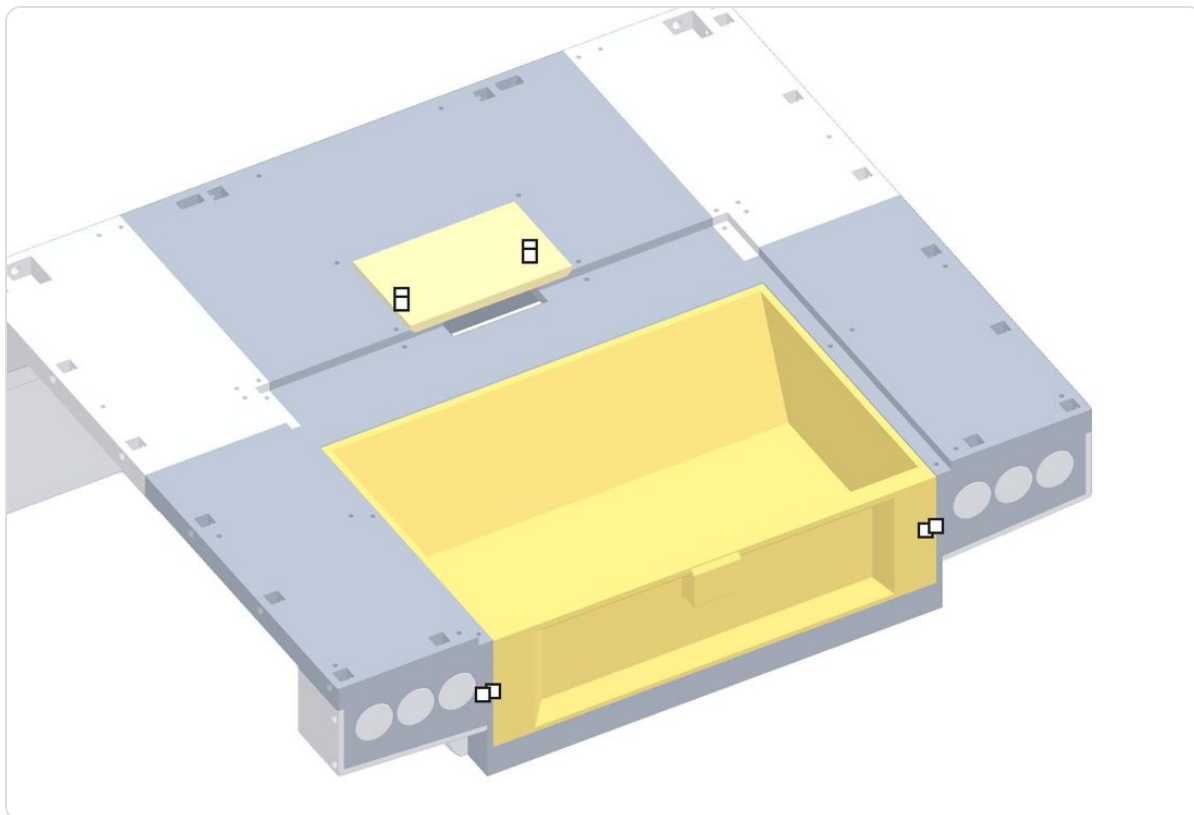
☐ **Check:** The cover is flat.

08

0
SCREWS

Set the magnets

Every black square in the picture is a magnet pocket. Magnets are 5 × 5 × 2 mm. Do this before the deck covers go on.



YOU NEED No screws in this step

1. Lay out the 8 magnets: two pairs for the drawer, two pairs for the gooseneck cover.
2. Before you fix anything, stack each pair and mark the faces that touch. One marked face goes in the part, the other goes in the pocket it meets. Get one pair backwards and the part will push away instead of snapping on.
3. The pockets are made for a press fit, but prints vary. If a magnet is loose, a small dab of glue holds it. Super glue turns white as it dries and it shows, so use as little as you can and keep it off the visible faces.
4. Press a magnet into each of the two pockets on the rear bedside inner walls. With the rear cover off you can reach them easily.
5. Press a magnet into each of the two pockets in the bed floor under the gooseneck opening.
6. Press the matching magnets into the two drawer sides and the underside of the gooseneck cover.

☐ **Check:** Hold the drawer and the gooseneck cover to their pockets. Both snap on. Nothing repels.

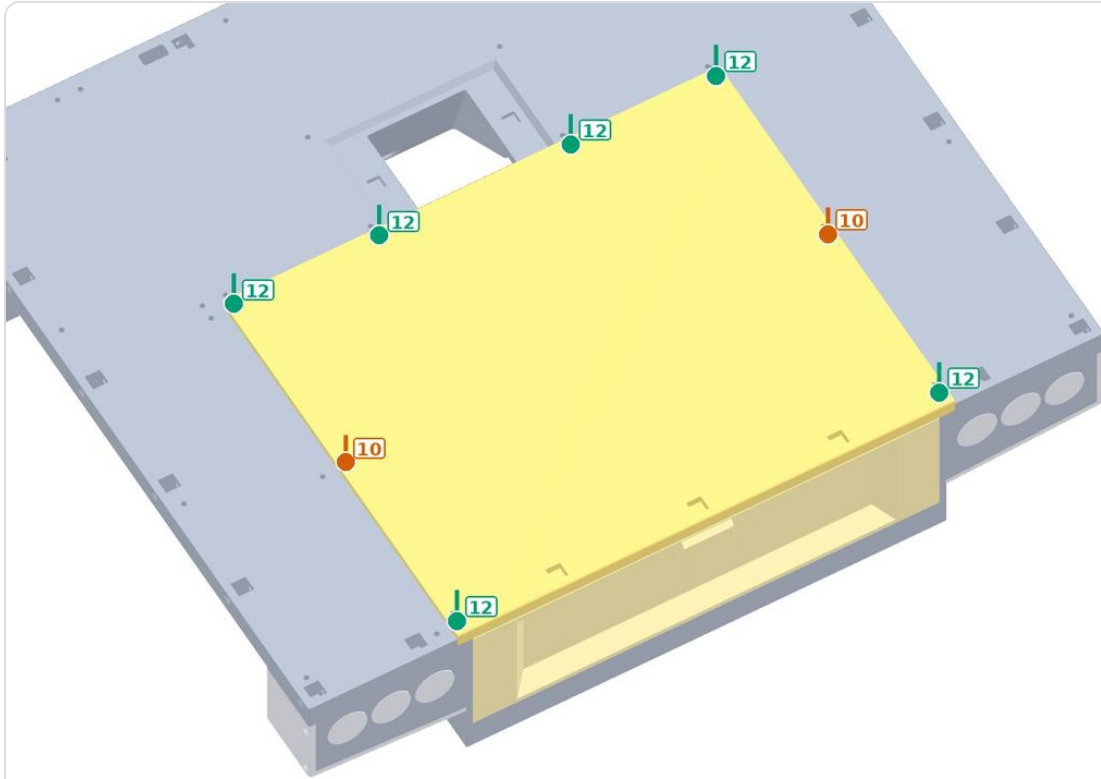
Fit the deck covers

09

8
SCREWS

Fit the rear bed cover and test the drawer

Drive straight down from above.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×10** ×2 **M2×12** ×6

1. Check the two bedside magnets are in (step 8). The cover hides them.
2. Set the rear bed cover on the back half of the deck with the textured side up. The screw holes are sunk into that side. If the holes look plain, the cover is upside down.
3. It has eight holes. The two outer holes about halfway along take M2×10. The other six take M2×12.
4. Slide the drawer into the rear bay and work it in and out a few times. It is made to be a snug fit, but it should move smoothly with no catching.

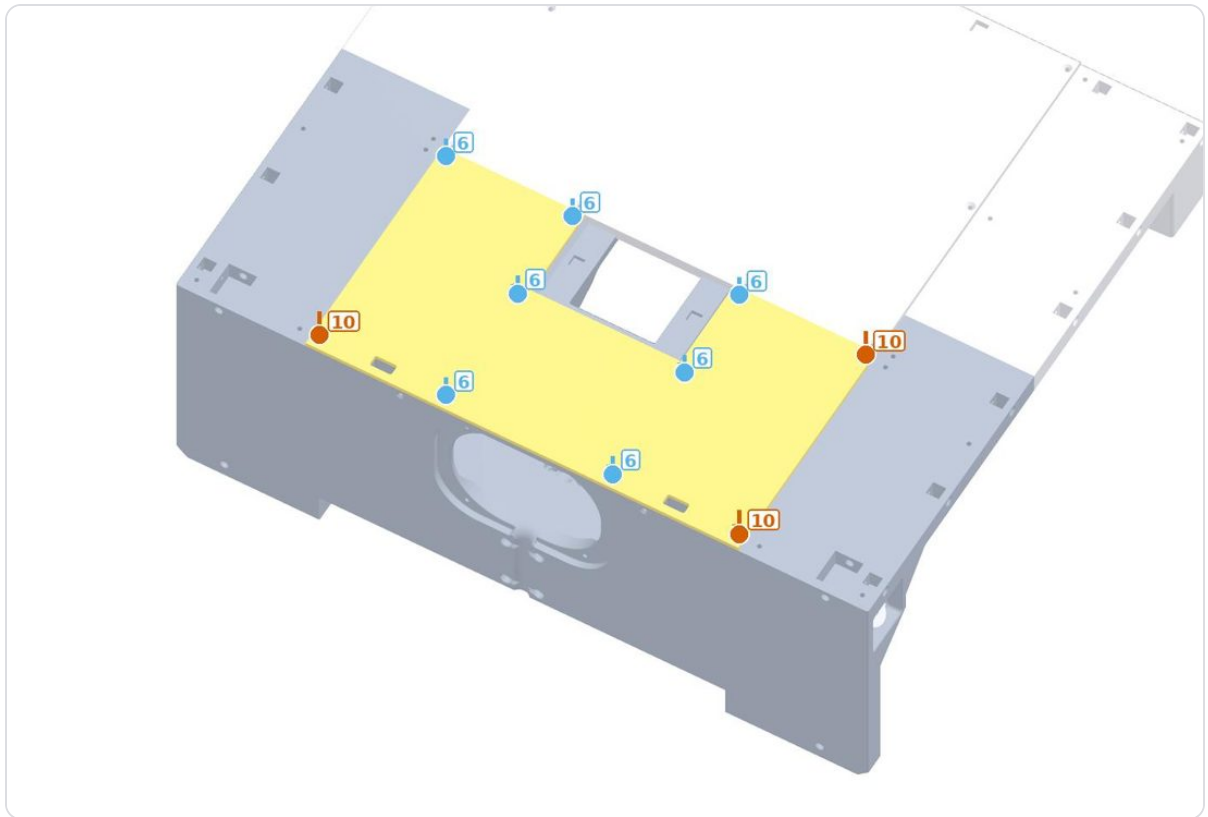
☐ **Check:** All eight heads are flush. The drawer slides in and out smoothly and the magnets hold it shut.

10

10
SCREWS

Fit the front bed cover

Drive straight down from above.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×6** ×7 **M2×10** ×3

1. Set the front bed cover on the front half of the deck, textured side up, sunk screw holes facing you.
2. It has ten holes. The seven in the middle and the passenger-side rear corner take M2×6.
3. The other three corners take M2×10: both driver-side corners and the passenger-side front corner.

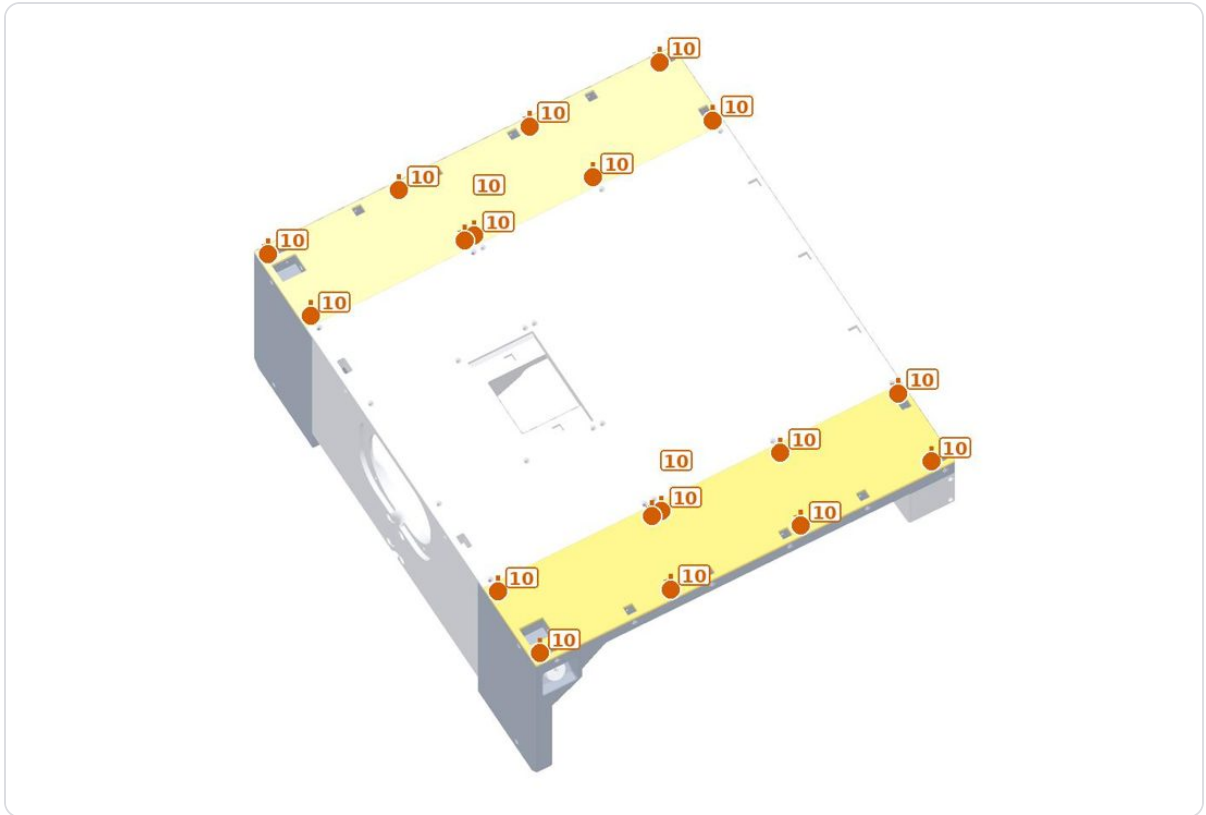
☐ **Check:** All ten heads are flush. The two covers meet with an even gap.

11

18
SCREWS

Fit the side bed covers

Drive straight down from above.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×10** ×18

1. Set the driver-side bed cover along the top of the driver bedsides, textured side up, sunk holes facing you. It has nine holes.
2. Drive nine M2×10 straight down.
3. Do the same on the passenger side with nine more M2×10.

☐ **Check:** The bed top is level across all four covers.

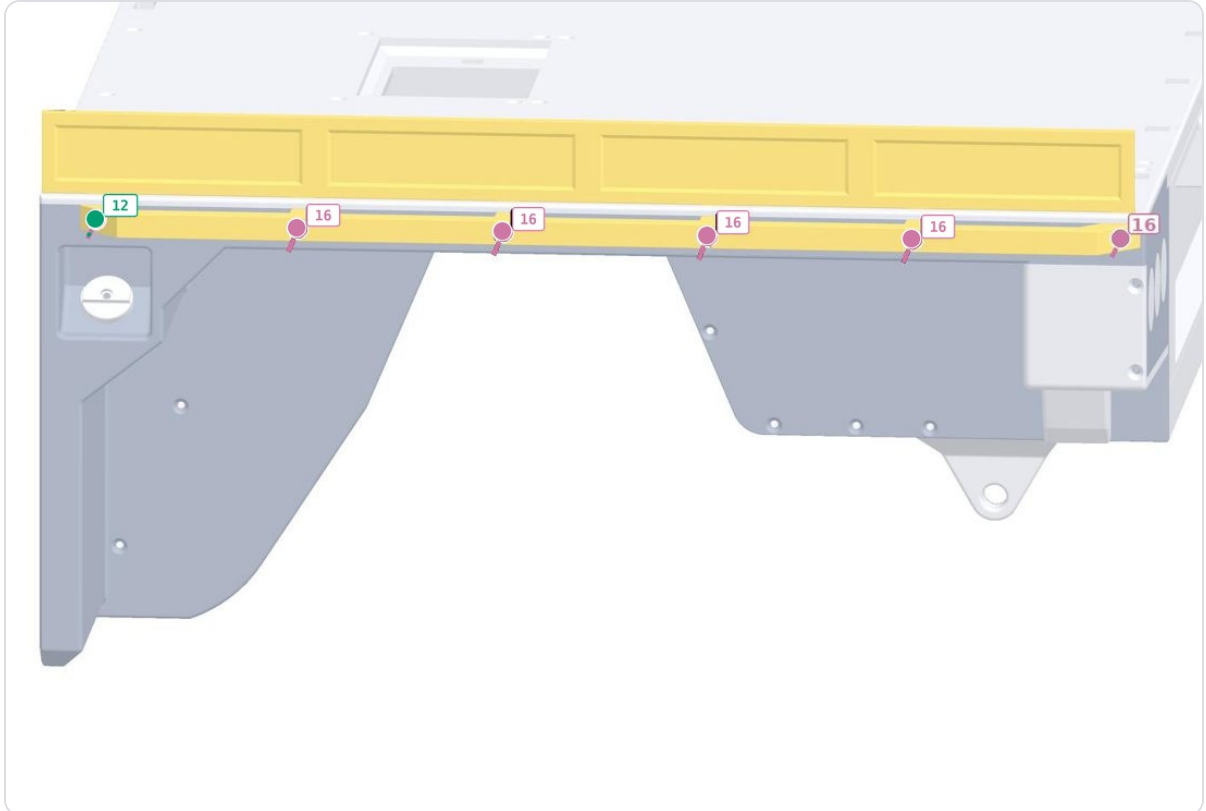
Fit the rails

12

12
SCREWS

Fit the stakesides and rub rails

Drive inward from the outside of the rub rail. Picture shows the driver side; the front of the bed, where the headache rack will sit, is on the left by the fuel cap.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×12** ×2 **M2×16** ×10

1. Hold the driver-side stakeside against the inside of the bedsides.
2. Hold the rub rail against the outside. Line up the six holes.
3. The front hole, the one nearest the headache rack, takes **M2×12**. The other five take **M2×16**.
4. The short screw at the front matters. Anything longer pokes through far enough to sit in the way of the rack foot when the headache rack goes on at step 18.
5. Drive each screw through the rail and the bedside into the stakeside. Screws go in from the rail side only.
6. Do the same on the passenger side.
7. No rub rails? You can leave them off. The same six sunk holes in each bedside take the screws straight into the stakeside; use M2×12 in all six.

☐ **Check:** The rail is straight and the stakeside is pulled tight. Nothing pokes out of the front hole on the inside.

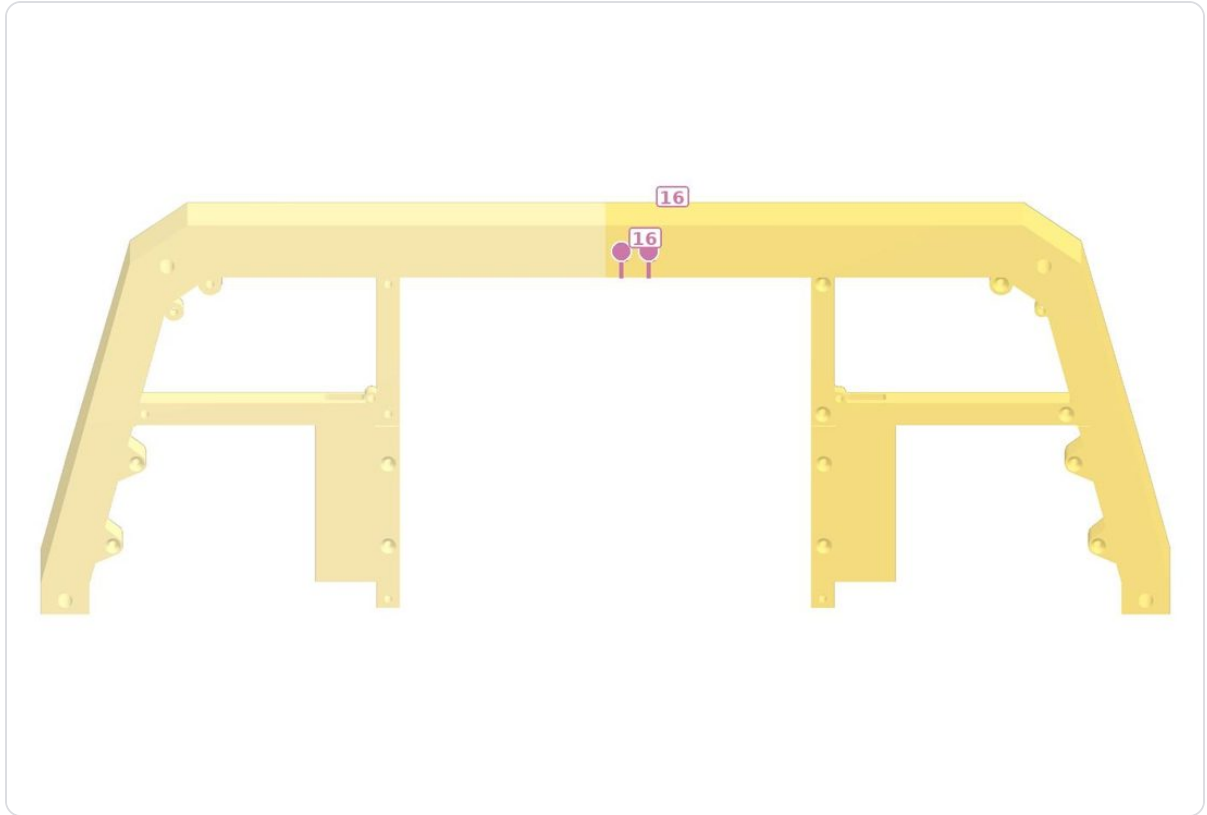
Build the headache rack

13

Join the two rack halves

2
SCREWS

Drive rearward from the front face, at the top centre.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×16** **×2**

1. Stand the two rack halves together. They overlap at the top centre.
2. The joint is a tight fit on purpose. Wiggle the halves together, a little at a time, until they sit snug with no gap.
3. If it will not go, take a little material off the male half of the joint with sandpaper or a craft knife, and check the female half for stray support material.
4. Drive two M2×16 from the front to lock them.

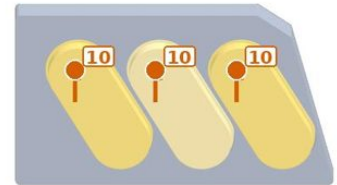
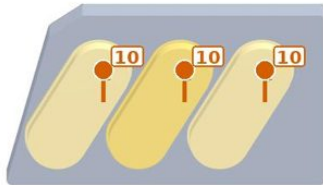
☐ **Check:** The rack stands square with no twist and no gap at the top.

14

6
SCREWS

Build the two light modules

Work on each bracket as a loose part, off the rack. Picture is the two brackets from behind.



YOU NEED **M2×10** ×6

1. Push a cosmetic ring into each of the three holes in a bracket, from the front.
2. **LIGHTS** Push a tested 12 V 5 mm LED into each lens.
3. Hold a lens against the back of the bracket, over its ring, and drive one M2×10 through the lens into the bracket. The lens now sandwiches the LED and the ring in place.
4. Do the same for the other bracket. Six screws in all.
5. **LIGHTS** The LED leads are short. Check now whether they will reach the pass-through at the front of the bed floor once the rack is mounted. If not, solder an extension wire on each lead now while the module is in your hand. The JST pigtail may have enough length to make up the difference; that is for you to judge.

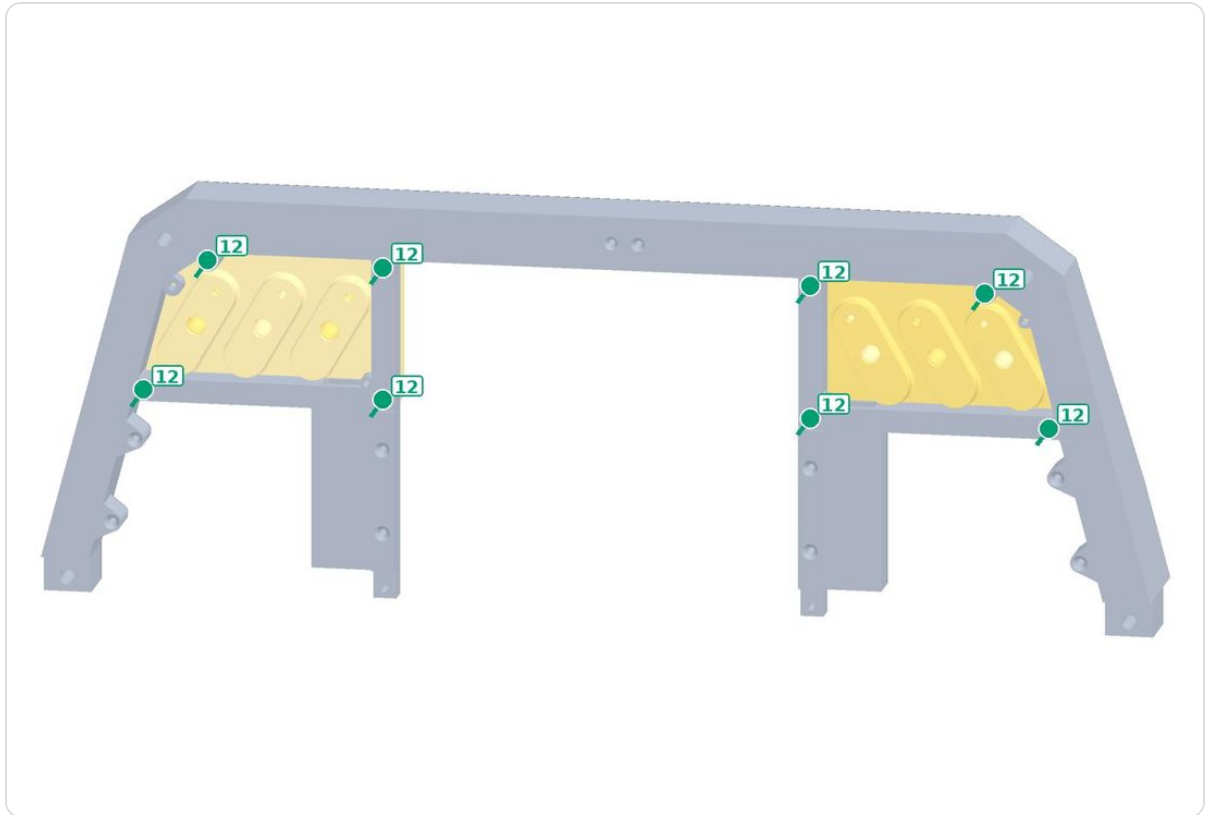
☐ **Check:** Six rings trapped, six lenses flush on the back of the two brackets.

15

8
SCREWS

Fit the light modules to the rack

Drive rearward from the front face. Four screws each side.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×12** ×8

1. Hold the driver-side module behind the driver half of the rack and line up the four holes.
2. Drive four M2×12 from the front.
3. Do the same on the passenger side with four more M2×12.
4. **LIGHTS** Run the LED leads down the wire channels on the back of the rack. You join them in step 19, after the rack is on the bed.

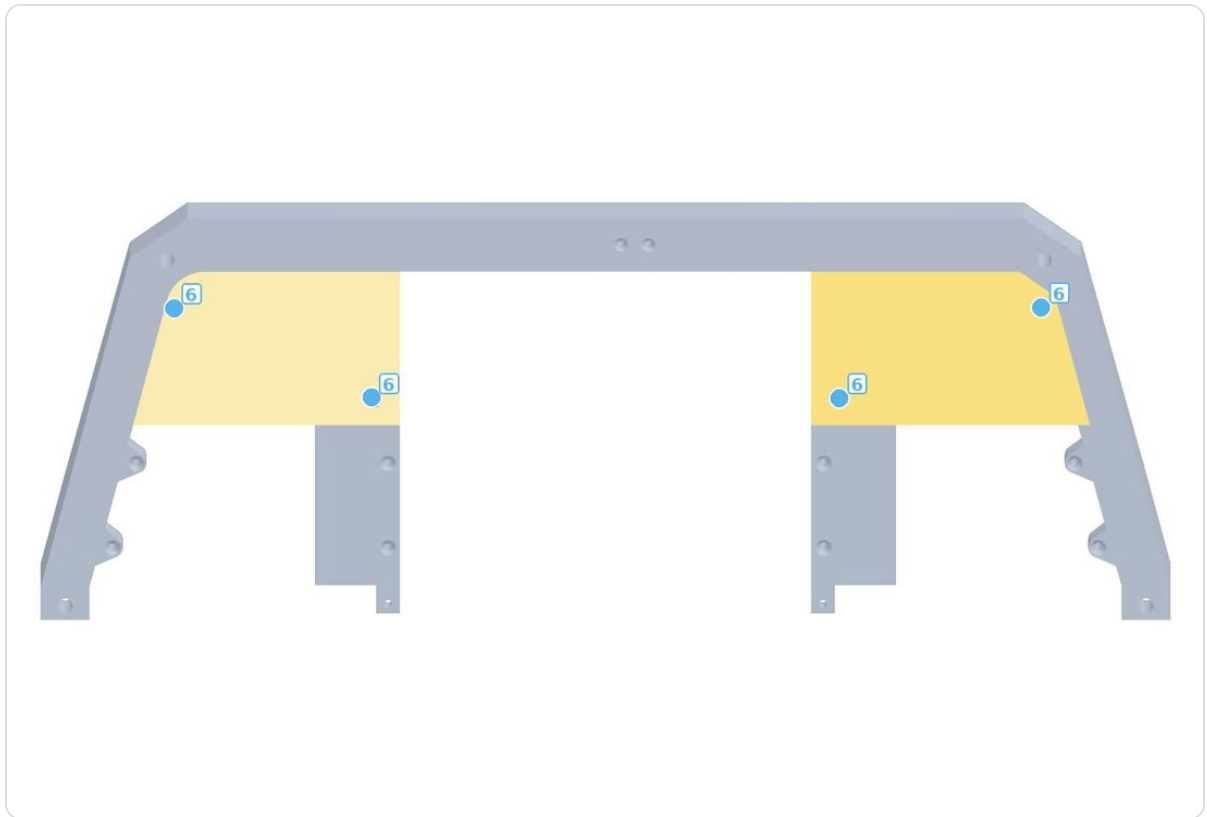
☐ **Check:** Both modules are screwed flat against the rack and the lights show through the front.

16

4
SCREWS

Fit the wire covers

Drive rearward from the front face.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED M2×6 ×4

1. LIGHTS Tuck the LED leads into the channels so the covers can sit flat.
2. Set a wire cover on each half of the rack.
3. Drive two M2×6 into each cover.

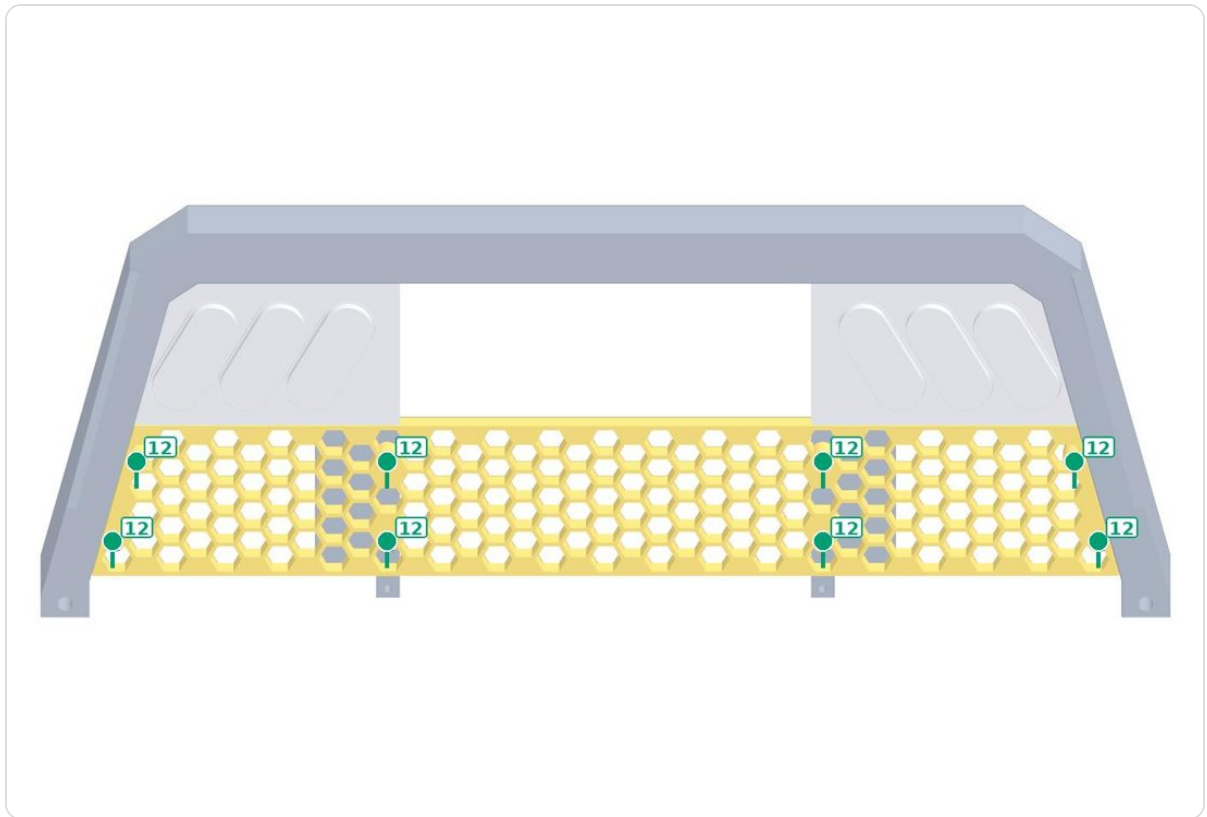
☐ **Check:** Both covers sit flush.

17

8
SCREWS

Fit the hexagon cover

Drive forward from the bed side of the rack. Picture is from the bed side, looking forward.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×12** ×8

1. Hold the hexagon cover against the back of the rack, on the bed side.
2. Every hole has a screw seat on both faces. Fit each screw from the bed side only. Never put a screw in from both sides of one hole.
3. Drive eight M2×12 forward into the rack, four into each half. Driving from the back keeps all the hardware hidden and locks the panel in place.

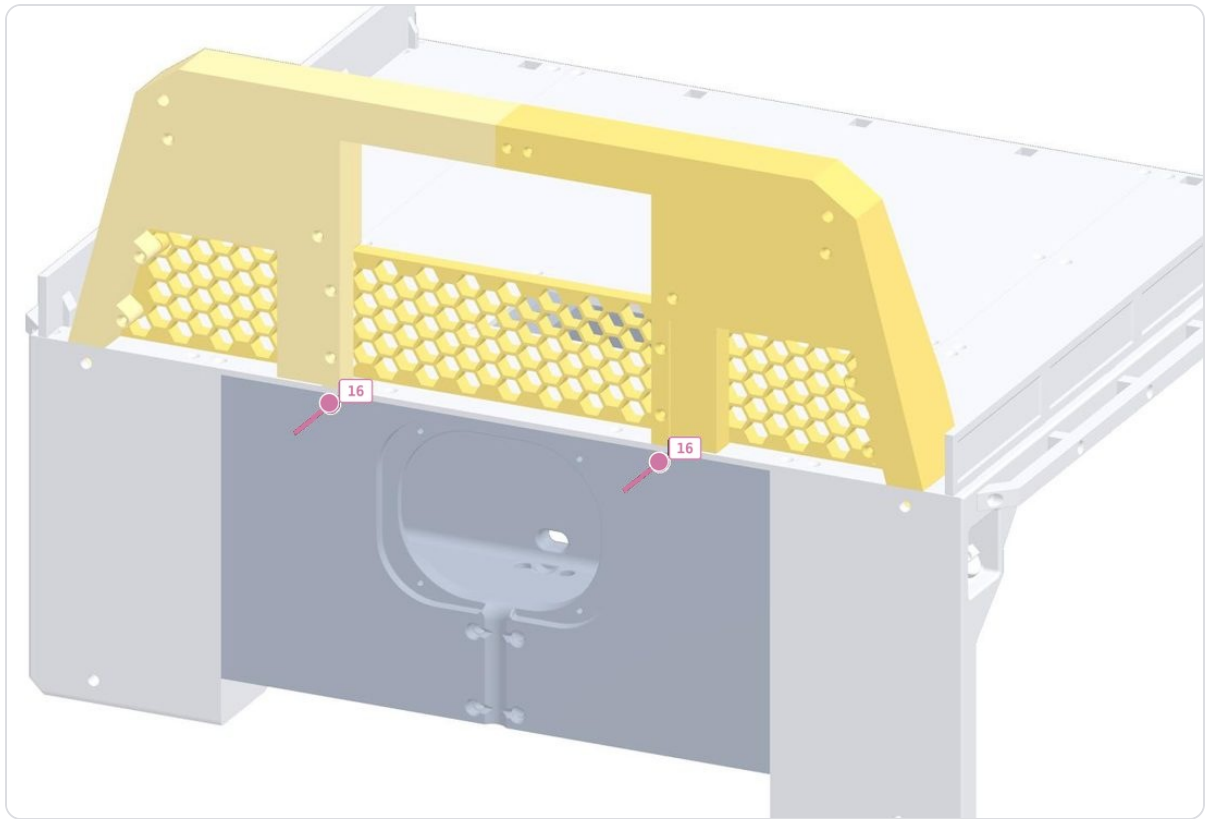
☐ **Check:** All eight heads are flush on the bed side and nothing pokes out the front.

18

Mount the rack on the bed

2
SCREWS

Drive rearward through the front lip of the bed floor.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×16** ×2

1. Set the finished rack on the front of the bed. Its feet drop into the pockets at the front of the bed floor.
2. **LIGHTS** Keep the LED leads clear of the feet as the rack goes down.
3. From the front face of the bed floor, drive one **M2×16** rearward into each foot.
4. Drive them slowly and stop as soon as the head is flush. Do not go up a size here: a longer screw bottoms out in the foot before the head seats.

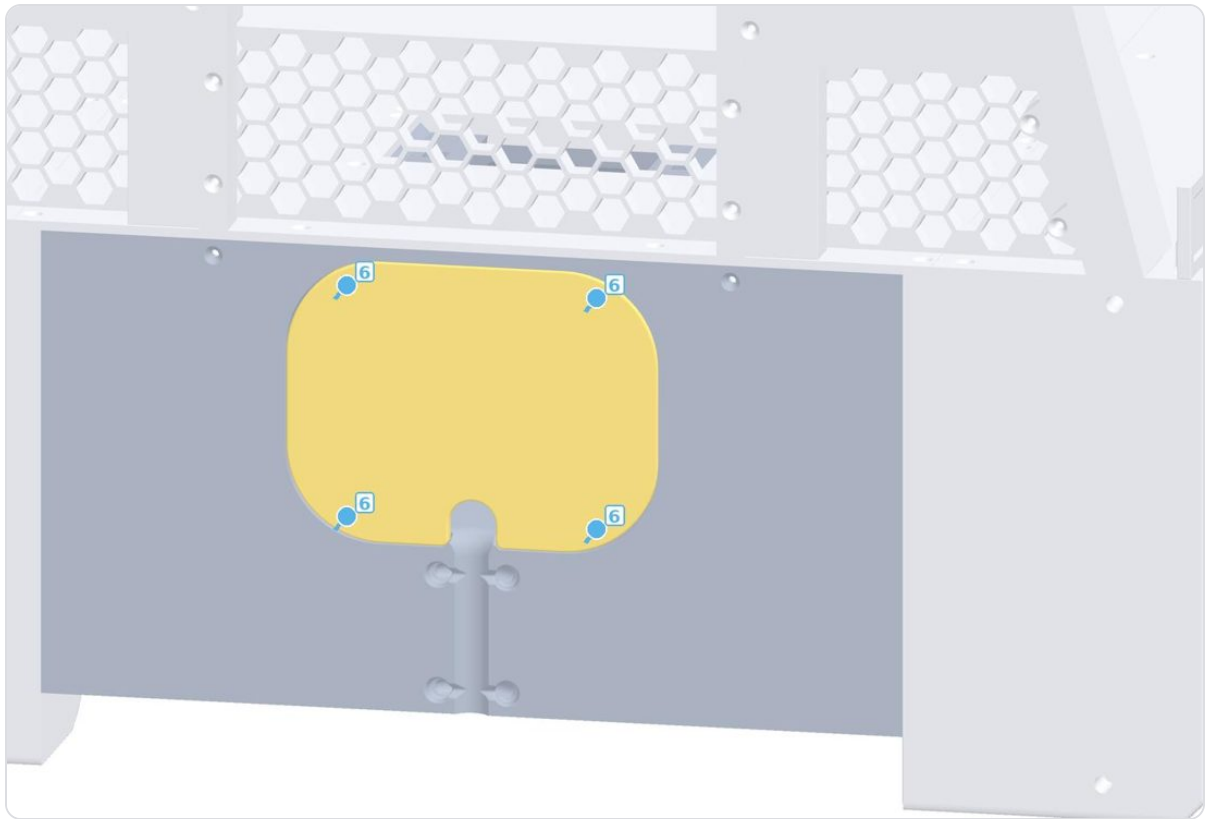
☐ **Check:** The rack does not rock when you push on the top.

19

4
SCREWS

Wire the rack lights and fit the pass-through cover

Drive rearward into the front face of the bed floor.



■ Parts you add now ■ Parts they attach to ■ Already fitted

YOU NEED **M2×6** ×4

1. **LIGHTS** Bring all six rack LED leads down into the inner bed cavity, where the pass-through cover mounts, and solder them to your second female JST pigtail, or a connector of your choice. Long legs to the positive wire.
2. **LIGHTS** If a lead comes up short, solder in an extension wire. The JST pigtail itself may have enough length to reach instead; check before you cut.
3. **LIGHTS** Choose a route for both pigtails. Either bring them out the front of the bed, where they sit between the mounted body and the bed, or take them through the pass-through toward the middle or rear of the bed. Use the zip-tie channels moulded in along the way.
4. Set the pass-through cover over the opening.
5. Drive four M2×6 to hold it.
6. **LIGHTS** Check no wire is pinched.

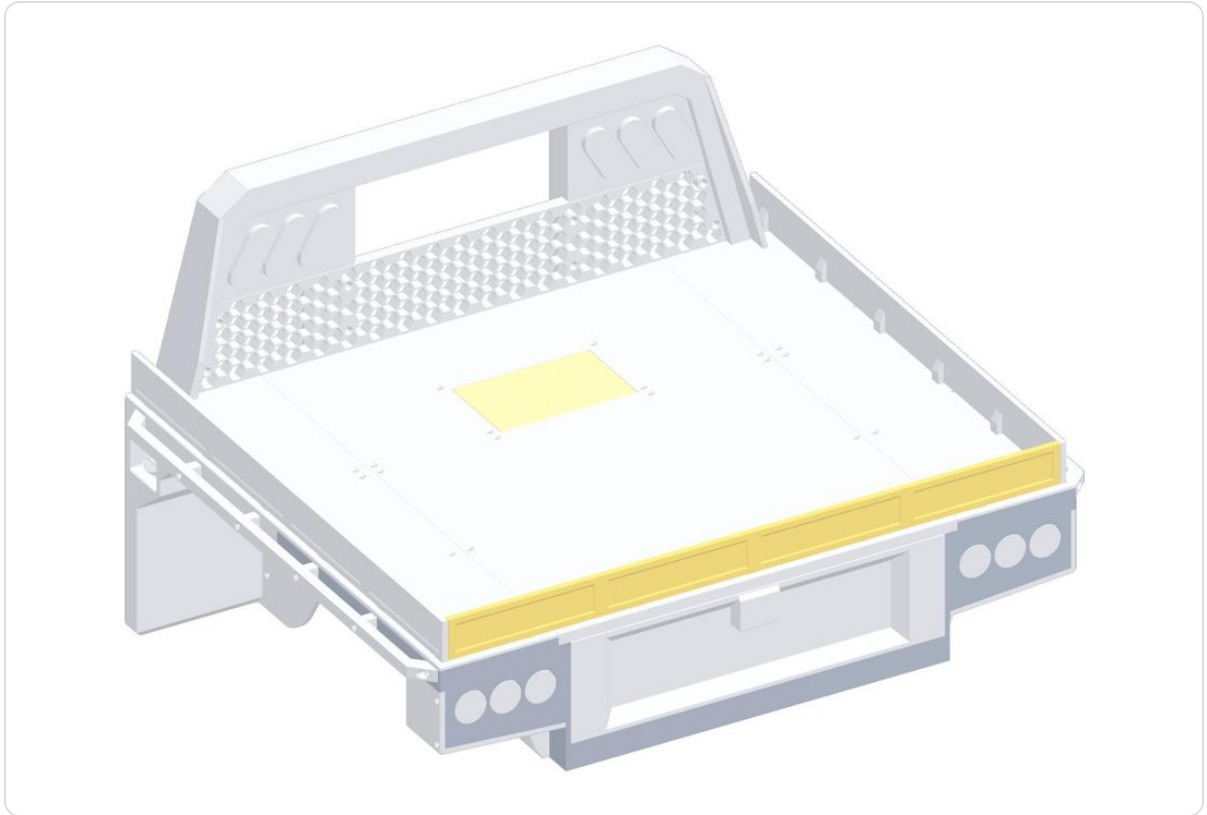
☐ **Check:** The cover sits flush with the front face.

20

0
SCREWS

Fit the tailgate and gooseneck cover

No screws.



YOU NEED No screws in this step

1. The tailgate is a rear stakeside. Its legs press into the slots along the rear edge.
2. Too tight to seat? Sand the legs a little. Too loose? A small piece of tape on one side of the longer outer legs adds enough friction.
3. Drop the gooseneck cover into the square opening in the front bed cover. The magnets hold it.

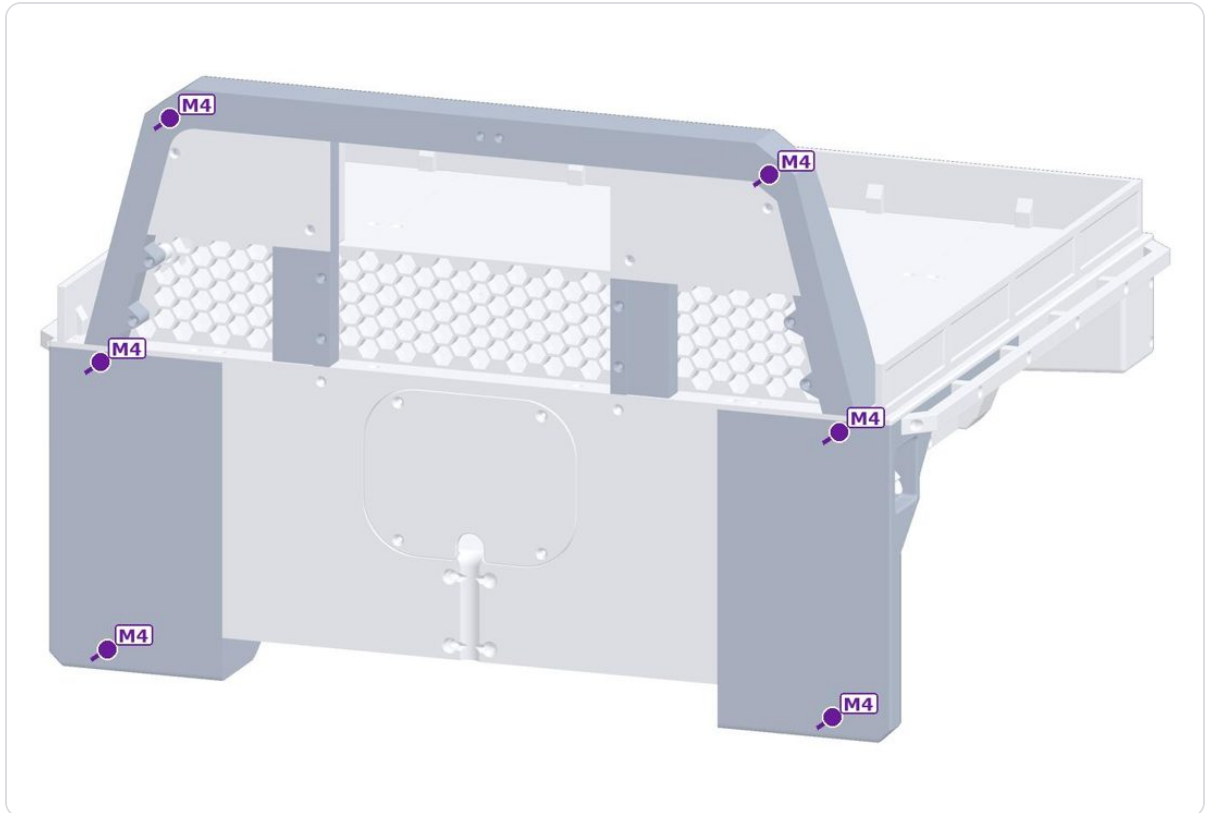
☐ **Check:** The tailgate seats fully and stays put. The gooseneck cover snaps in.

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SCREWS

Mount the bed and power up

Uses the M4 screws, washers and shoulder bolts from the stock SCX6 Honcho rear cage, plus the spacer set for your body.



YOU NEED No screws in this step

1. Fit the spacer set for your body: **Honcho**, **SR5** or **F250**. Spacers are body-specific and come with their own sheet. From inside the body: screw, then washer, then the spacer on the outside of the body, then the screw passes through into one of the six M4 holes on the front of the bed. Four are on the front bedsides, two are up on the headache rack. They are marked M4 in the picture.
2. Use the shoulder bolts that held the stock rear cage to mount the bed to the frame.
3. Tilt the whole assembly open and closed a few times, gently, and watch for anything that binds or rubs.
4. **LIGHTS** Check your wire routing one more time, then plug in and test all twelve lights.
5. **LIGHTS** Powering the lights: a JST lead straight off a 3S battery works, since the LEDs are 12 V. On 4S or higher, run them through a BEC. A plain 9 V battery also works. A powered receiver channel may work, but that depends on your radio gear and needs the right adapter or plug; you will have to judge that for your own setup.

☐ **Check:** The bed tilts freely, nothing rubs, and every light comes on.