



# DROPOUT INSERTS GUIDE SHEET

For Strael 3.0, Secan 2.5 & Faran 2.5

$\textcircled{f} \times \textcircled{b}$  MK II

# MODULAR DROPOUTS



Our Fairlight x Bentley Mk II dropouts are a fully modular design with removable CNC inserts on the disc-side and the drive-side. These dropouts feature on the Strael 3.0, Secan 2.5 and Faran 2.5.

The benefit of the design is that we do not have to align ourselves to any particular brand or standard. The hope is that as new standards are developed in the future (it's inevitable I'm afraid!), we can produce inserts to meet the dimensional requirements of those new designs. The aim is that we can future-proof your investment.

As of July 2024, we have introduced two new drive-side insert options; **SRAM T-Type** and **Shimano Direct Mount**. Both of these new options are available to order in our web store.



# STANDARD HANGER



This is the standard derailleur hanger that comes on all Strael 3.0, Secan 2.5 and Faran 2.5 framesets and bikes.

This insert is compatible with all rear derailleurs except SRAM Transmission (T-type).

The kit includes:

- CNC insert
- 2 x spare T30 bolts







# SRAM TRANSMISSION



This insert is compatible with all SRAM Transmission (T-type) derailleurs.

## SRAM UDH - A Trojan Horse

SRAM pitched UDH as a Universal Derailleur Hanger system to make life easier for consumers and dealers. However, it was in large part a 'trojan horse' designed to get frame makers to build in the required interface dimensions for installation of their Transmission (T-Type) rear derailleurs.

The important point from our perspective, is that there is no guarantee that other groupset brands (e.g. Shimano, Campagnolo etc) will follow the exact same interface standard as SRAM in the future. Our fully modular solution means we should be able to offer inserts for future standards.



The T-type insert kit is supplied with 4 x stand-off washers, in case mudguard stays or rack feet need spacing away from the dropout. The 2 x black nylon versions are for use with mudguards, whereas the 2 x metal versions are for use with rear racks. Some mudguards/racks will not require use of the spacers.



The SRAM T-Type kit can only be purchased as a separate kit in our web store. The kit includes the following parts:

- T-type insert.
- Stainless threaded back plate.
- 171.5mm axle M12x1.0. Note: This is different to our standard rear axle as it screws directly into the T-type rear derailleur.
- 2 x 12mm M6 T30 bolts.
- 2 x Nylon stand-off washers.
- 2 x Metal stand-off washers.

[Purchase SRAM T-Type kit](#)











**SRAM**

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# INSTALLING THE SRAM TRANSMISSION INSERT

If you are installing a Sram Transmission groupset then you will be starting your build from a frameset. All framesets are supplied with the standard derailleur hanger installed.

1



1 - Use a T25 or T30 allen key [depending which bolts your frame has installed] to remove the bolts from the standard hanger.

2 - Completely remove the standard hanger insert from the frame. Put the insert, stainless plate and bolts into a small bag and store them away.

2







**3 & 4** - Unlike the other inserts, the T-Type piece fits to the outside face of the dropout. The bolts screw into a stainless threaded plate which is mounted to the inside face. The male mating parts of both pieces should fit snugly into the holes in the dropout face.





**5** - Add the T30 12mm bolts and **torque both bolts to 8 Nm.**

**Important note:** You must use the bolts supplied with the T-Type insert. They are a different length to the bolts used for the other inserts.

**6** - Install the SRAM plastic top-hat washer/bushing that is supplied as part of the Transmission derailleur.







7 – Slide the Transmission derailleur on to the T-Type insert.

8 – Add the bolt and very lightly tighten. Do NOT torque the bolt at this stage.

From this stage onwards please follow the SRAM installation instructions that are supplied with the Transmission derailleur. Make sure you use the axle that is supplied as part of the T-type insert kit.



















# SHIMANO DIRECT MOUNT



This insert can be used with any Shimano Direct Mount compatible rear derailleurs. Compatible rear derailleurs include:

- **105:** R7000 11-speed, R7100 12-speed.
- **105 Di2:** R7150 12-speed.
- **Ultegra:** R8000 11-speed.
- **Ultegra Di2:** R8050 11-speed, R8150 12-speed.
- **Dura Ace:** R9100 11-speed.
- **Dura Ace Di2:** R9150 11-speed, R9250 12-speed.
- **GRX:** RX810 2x 11-speed, RX812 1x 11-speed, RX820 2x 12-speed.
- **GRX Di2:** RX815 2x 11-speed, RX817 1x 11-speed, RX825 2x 12-speed.

**Note:** GRX 12-speed 1x does not use the Direct Mount standard.





The Shimano Direct Mount insert can only be purchased as a separate kit in our web store. The kit includes the following parts:

- CNC insert
- 2 x spare T30 bolts

**Note:** It uses the same stainless washer as the standard hanger.

[Purchase Shimano Direct Mount insert](#)







FAIRLIGHT

WN 8





# SWAPPING THE STANDARD HANGER FOR DIRECT MOUNT

If you are a confident home mechanic then you can do this yourself. Alternatively this will be a straight-forward job for a good local bike shop.

To do the insert swap, first remove the wheel from your bike. The whole process shown here can be done without removing the chain or loosening the derailleur cable.

1

1 - Use a 5mm allen key to remove your Shimano Direct Mount compatible derailleur from the standard hanger.

2 - Use the same allen key to then remove the bracket axle (knuckle) from the derailleur.





**3** - The bracket axle can be stored away somewhere, you do not need it for the rest of the installation. Keep the bolt close to hand as you will need it again to install the derailleur to the Direct Mount insert.

**4** - Use a T25 or T30 allen key [depending which bolts your frame has installed] to remove the bolts from the standard hanger. Note: We now use T30 bolts as standard for all dropouts. A spare set of 11mm T30 bolts are supplied with the new insert.





5 - Completely remove the standard hanger insert from the frame. Put the bolts and stainless washer on a nearby surface as you'll need them again shortly.

6 - Take the Direct Mount hanger and insert the male mating parts into the dropout holes.







7 - Add the stainless washer and the bolts again that were removed in step 4. If you have the T25 bolts, we recommend replacing them with the supplied T30 versions. **Tighten the bolts to 8 Nm.**

8 - Slide the derailleur on to the Direct Mount insert and add the bolt that was removed in step 2. **Tighten the bolt to 8-10 Nm.**

You can then re-install the wheel and try the gears. You should not need to re-adjust the limit screws but you will need to adjust the B-screw.





# **FIT FUNCTION FORM**

 **FAIRLIGHT**