Undercarriage

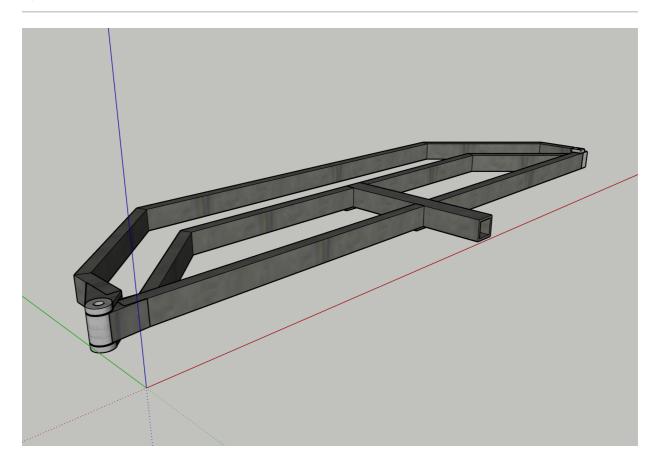
- 1. Overview
- 2. Base
- 3. <u>Under Frame</u>
- 4. Energy Subframe
- 5. Assembly

Made principally from...

- 25x50 mm RHS
- 50x50 mm RHS

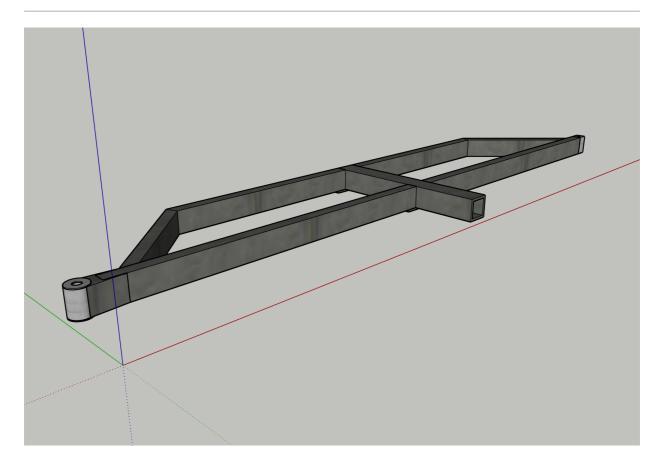
NOTE: While researching I have seen "receiver" used for the towbar mounting socket on the vehicle, & "shank tube" for the part that plugs into the receiver. I use the same terms here.

Overview

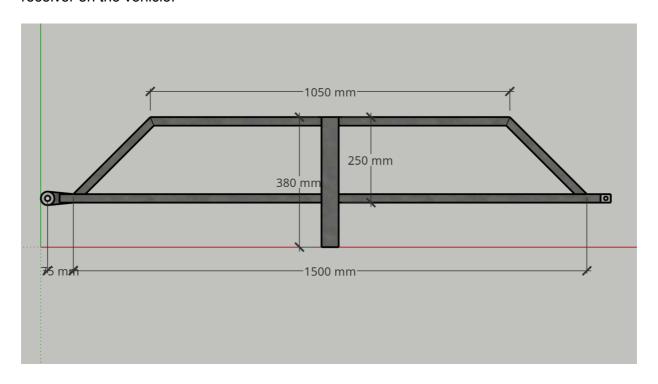


The design intention is for the bottom front rail of the box frame to be positioned directly above the front cross member of the base.

Base

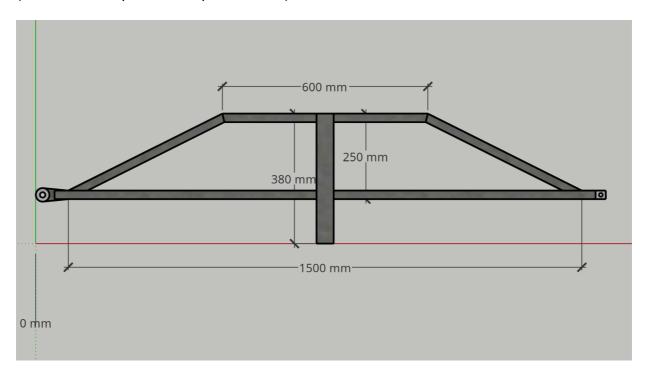


The base mounts to the vehicle with the central tube serving as shank tube & going into the receiver on the vehicle.

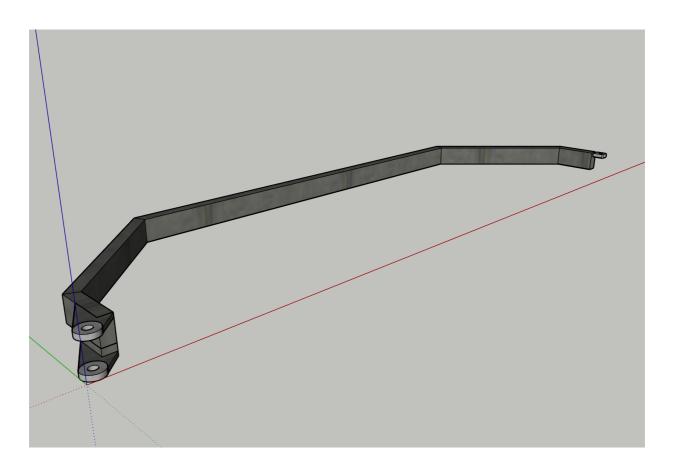


- The length of the shank tube is drawn to go the full 130 mm depth of the receiver on my vehicle. Making it a few mm shorter may be desirable.
- Hole to suit 5/8" hitch pin needs to be positioned to suit the receiver on my vehicle & is not drawn.
- Cross pieces to facilitate attachment of the step (see <u>Components</u>) need to be add as the engineer sees fit.

The 1050 mm dimension above puts the angled members at 45°, however that only needs to be wide enough to fit the step underneath. The alternate drawing below makes that 600 mm (width of the step rounded up to 100 mm).



Under Frame



The Under Frame supports the kitchen box & provides the mounting points to the base.

