

Land Rover Series PTO Trailer Socket



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Summary

Most Land Rovers don't come with PTOs anymore, which leaves the PTO hole open for a 13 pin trailer socket.

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Versions

- With Support: These models have a little support material added and a bridge for the mounting holes, which makes it possible to print the model entirely without additional supports.
- With Cutout: Our PTO hole (replacement frame part from Britpart) had quite a thick weld bead for which I added a cutout in the model. Your frame may vary, so you can use the model without cutout. Furthermore, you can use the "Cutout Piece" to place a negative volume in PrusaSlicer and create a cutout in your desired spot. The model has the cutout at ~18° relative to the horizontal axis.

Recommended Material & Print Settings

- The print in the pictures was made with ABS, in a car it's best to use ABS, PETG, ASA, ...
- Use high infill in the tabs for a strong part. The disc part can have less infill.
- 3 perimeters recommended

Additional Hardware

- Trailer Socket Herth+Buss 51305036 (or equivalent, most 13-pin sockets share the same bolt pattern)
- 3x M6 hex key bolts and nuts (length depends on your specific socket)
- 3x screws for mounting the adapter plate to the frame (self tappers, rivnuts, tapping directly into the frame, ...)

Please consider liking the model and posting a Make. It took a lot of revisions and a lot of filament and O-rings to get this right.

Model files



Without Cutout, Without Support

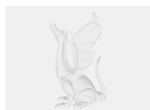
3 files



trailer-socket-plate-v6-no-cutout.3mf



trailer-socket-plate-v6-no-cutout.stl



trailer-socket-plate-v6-no-cutout.step



With Cutout, with Support

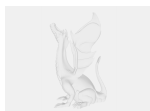
3 files



trailer-socket-plate-v6-support.3mf



trailer-socket-plate-v6-support.stl



trailer-socket-plate-v6-support.step



With Cutout, without Support

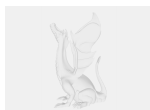
3 files



trailer-socket-plate-v6.3mf



trailer-socket-plate-v6.stl



trailer-socket-plate-v6.step



Without Cutout, with Support

3 files



trailer-socket-plate-v6-no-cutout-support.3mf



trailer-socket-plate-v6-no-cutout-support.stl



trailer-socket-plate-v6-no-cutout-support.step



cutout-piece.3mf



cutout-piece.stl



cutout-piece.step

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