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adamgreen Build note updates ...

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3 contributors



49 lines (30 sloc) | 1.86 KB

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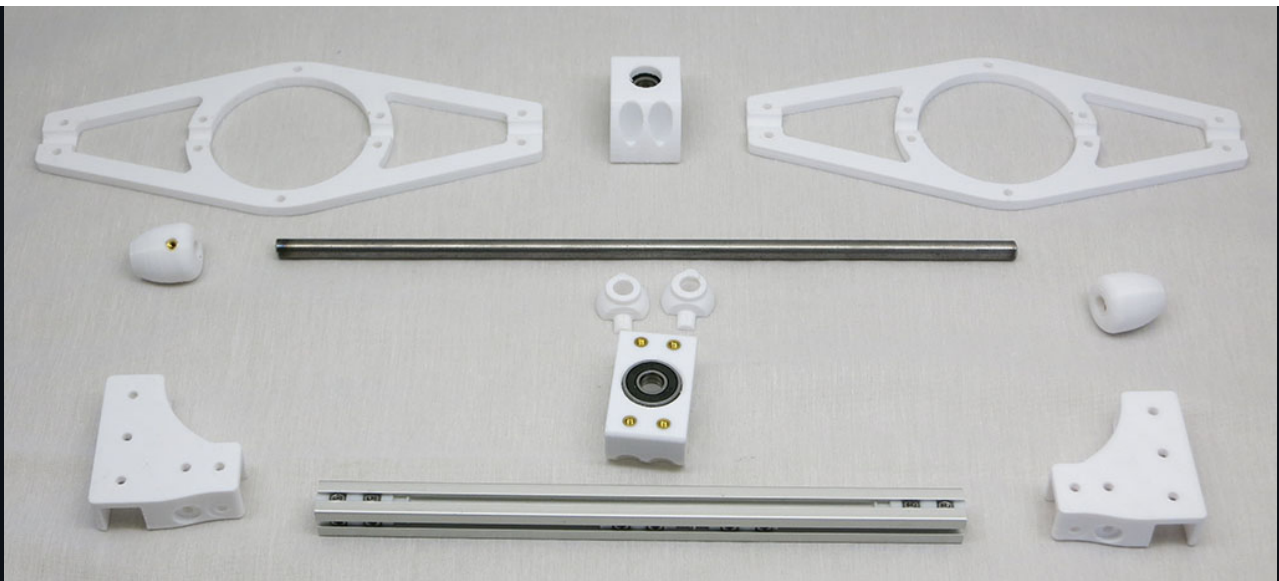
Differential Assembly

The differential pivots about the center of the rover body to distribute suspension motion across to the other side of the rover.

Estimated Time: 45 minutes

Parts:

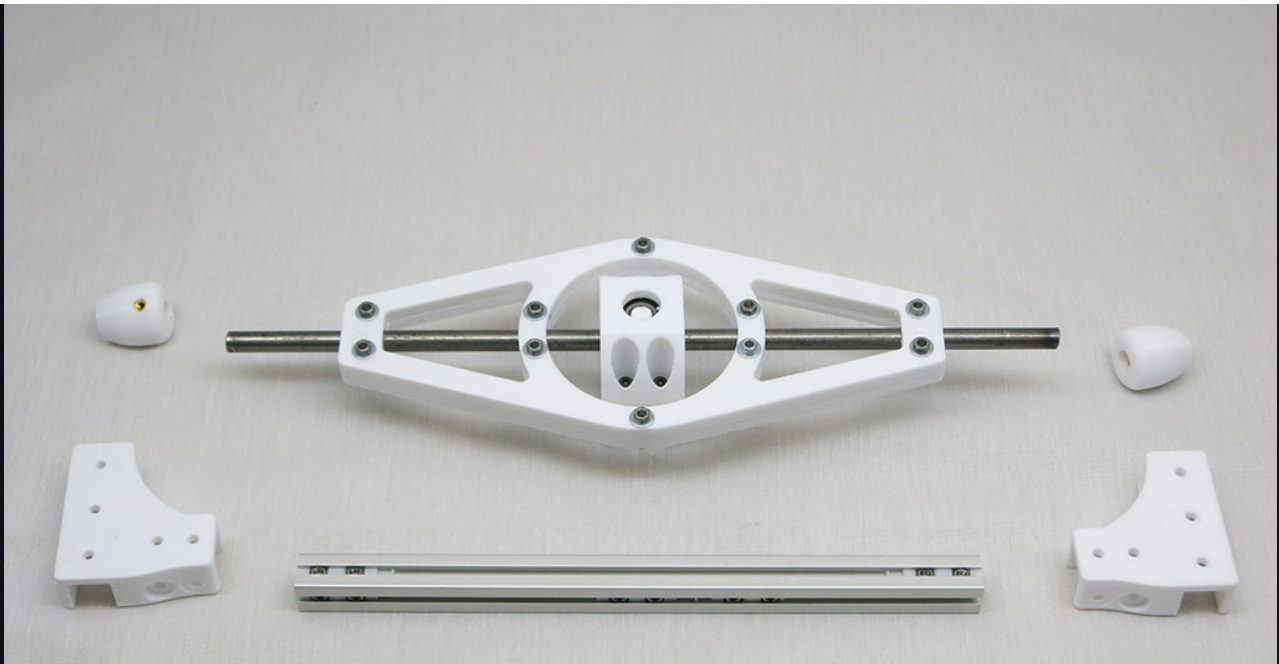
- All [printed differential components](#)
- 1 * 8mm diameter 300mm long steel shaft
- 1 * [238mm aluminum beam](#)
- 8 * [M3 nut installation tool for 2 nuts, 12.5mm apart](#)
- 32 * M3x8mm bolts
- 10 * M3x16mm bolts
- 26 * M3 nuts
- 52 * M3 washers
- 2 * M3 set screws



Use 4 M3x8mm bolts with washers to fasten upper and lower parts of differential pivot.

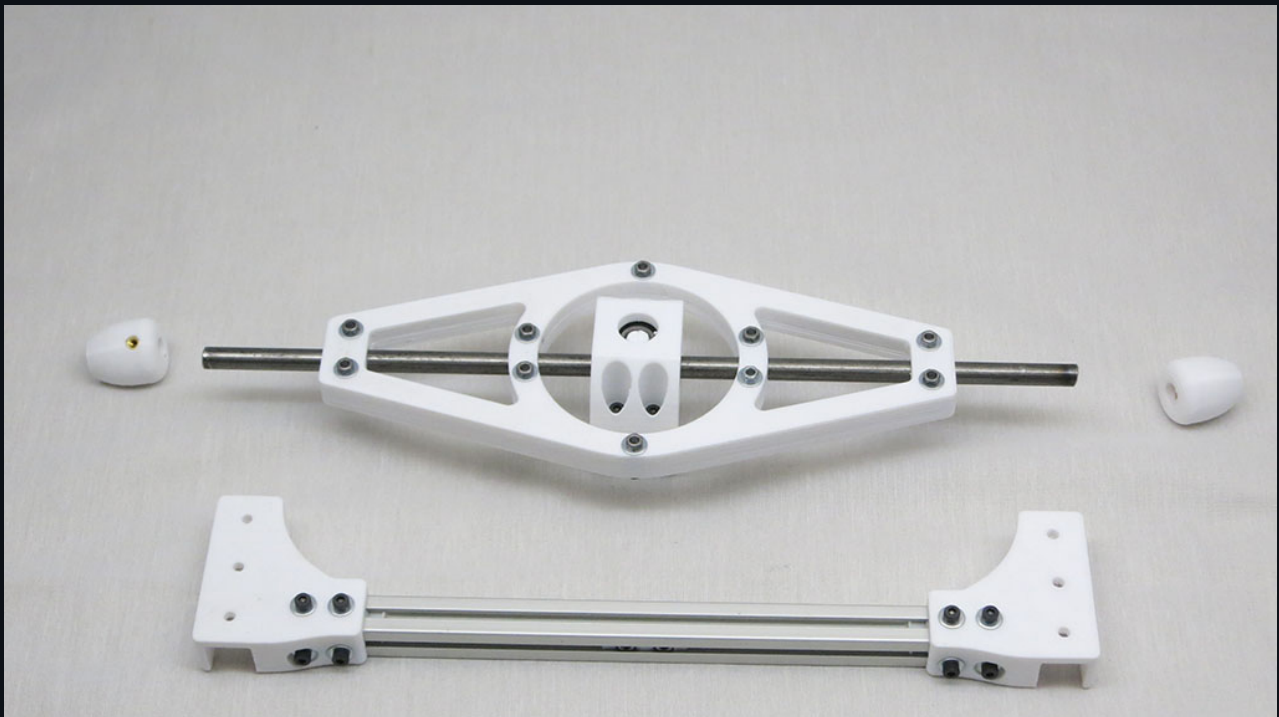


Use 10 M3x16mm bolts and nuts (with washers) to fasten top and bottom parts of differential brace together.

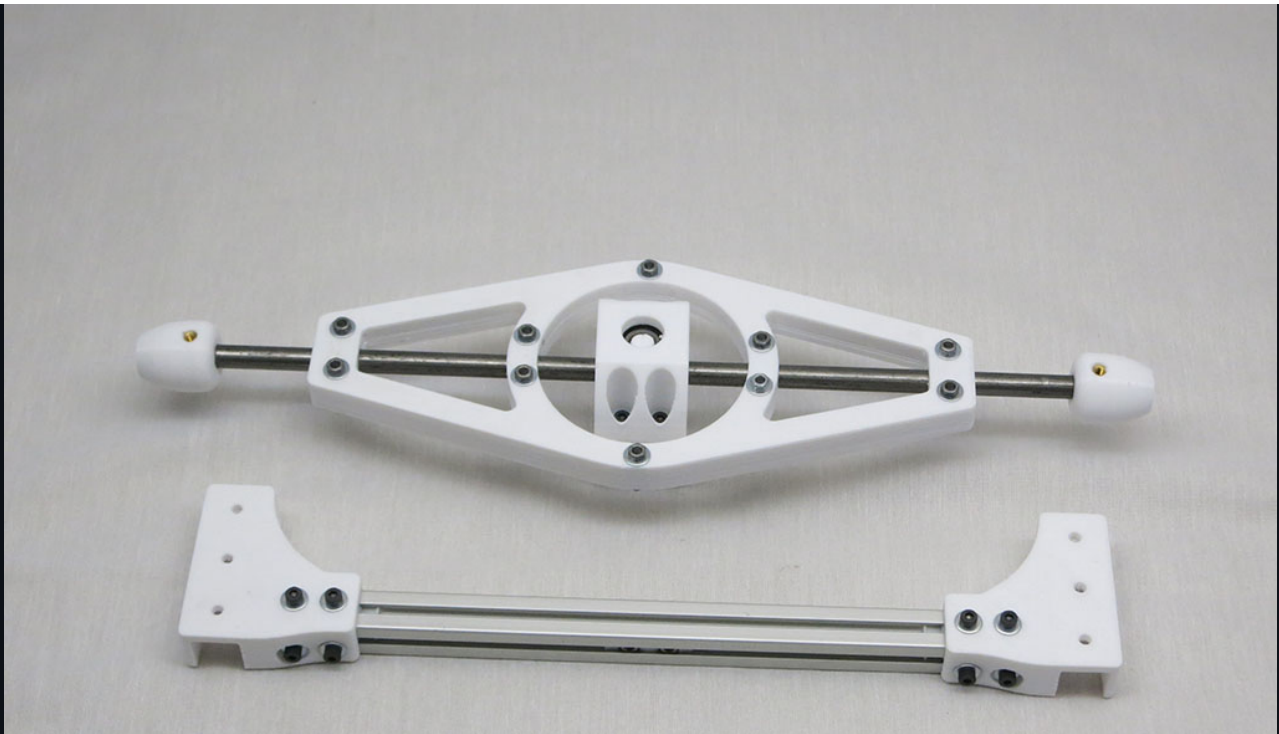


Insert 2 M3 nut installation tools in center of differential beam side slots for future attachment of differential.

6 M3 nut installation tools, 12 M3x8mm bolts with washers.



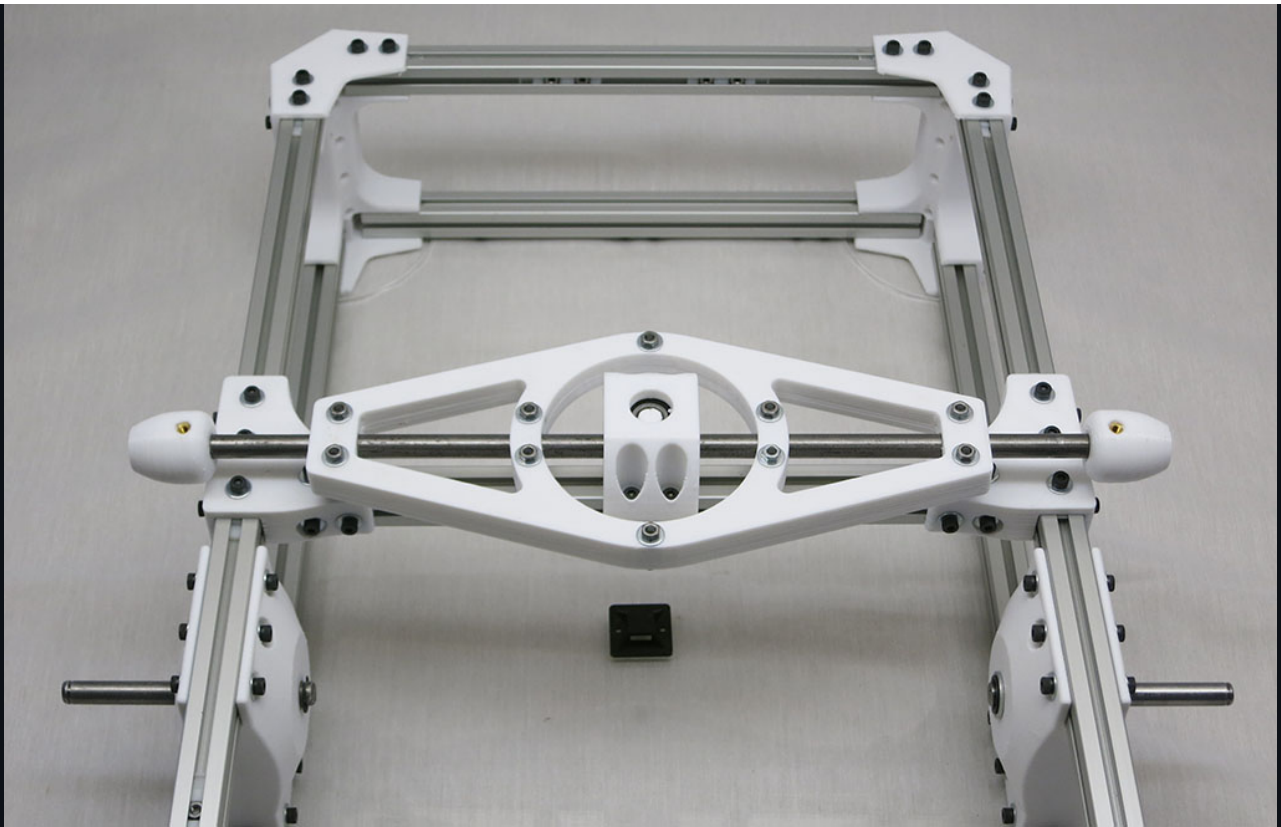
2 M3 set screws to hold the links in place on the pivot shaft.



Bolt the differential onto the beam with 4 M3x8mm bolts with washers and the 2 previously installed M3 nut installation tools.



Bolt differential onto body box with 12 M3x8mm bolts with washers.



The Differential Ends should be about 20mm from the Rocker Body mounts. The distance will vary slightly, depending on the length of the turnbuckle used.