



# GBGBambooBikes - assembly guide

## Bamboo pole parts:

1. Top tube
2. Down tube
3. Seat tube
4. Chain stay left
5. Chain stay right
6. Seat stay left
7. Seat stay right

## Flax fiber composite parts:

8. BB bearings fitting
9. Head tube bearings fitting
10. Seat tube insert for seat post

## Bamboo-ply parts:

11. Dropout, left
12. Dropout, right
13. Hanger
14. Seat stays joint
15. Seat tube joint
16. Chain stays joint
17. BB joint center
18. BB joint bottom
19. BB joint left
20. BB joint right
21. Head joint center left
22. Head joint center right
23. Head joint outer left
24. Head joint outer right

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## Jute fiber composite parts:

25. Stays reinforcement fabric
26. “
27. “
28. “
29. “
30. “
31. “
32. “
33. Head tube reinforcement fabric

## Bamboo poles preparation:

All poles should have a groove, 3mm wide and 1.5 mm deep, 10 mm from each end.

Parts number 1-3. 35 to 40 mm diameter. Chamfer on outside on both ends.

Parts number 4-7 19 to 22 mm diameter. Chamfer on inside on both ends.

## Bearing fittings from flax composite preparation:

Parts number 8-10. These are pre-fabricated using PE cylinders as internal mold for precise dimension. Two layers of 400 g/m<sup>2</sup> flax fabric. Fabric wetted with 50% (by weight) resin before lay-up on mold. Use thin cotton sewing thread to hold it in place.

Apply one layer of perforated release membrane and one layer of breather cloth.

Compress with strip of inner tube rubber. After curing is complete, place in freezer for 15 min so that the PE core shrinks and can be removed.

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