

Box of bits



Front and rear wheels. Chain with screwed sprocket teeth
Wheels drilled to accept teeth Modesty block chain guide
Cycle tyre to be screwed to chain

Hey presto



200mm nylon wheel Packet modesty blocks

Standard chain (not bike chain) Bike tyre cut in half
Steel sides removed

Many nylon M4 M5 countersunk screws + M5 dome nuts Conical drill otherwise ordinary tools



Sprocket teeth

Sprocket holes



M5 teeth(screw) thro' inner link NOT outer. space 3 link



Sprocket teeth



Drilling Sprocket holes: start on one work your way round pilot drill for correct spacing



Drill hols to suit domes. Widen at top to ensure location of teeth

Useful put chain over wheel rotate to mark hole positions once first hole made.



Attach tyre to chain NB I have not done this last bit !



Tyre longer than chain ready to cut and join Glue tyre tape under chain to tyre .
Remove all teeth from chain lay in tyre. Mark tyre for holes as original spacing teeth



Drill M5 holes through tyre Turn over and counter sink. Fit M5 tooth screws through tyre and chain . Screw in to dome head nuts to secure

Join tyre ends so we now have complete loop of sprocket and teeth Cut tyre to length leaving tape overlaps Glue inner tyre tapes together Reinforce with leatherwork style needle and thread to join main rubber tyre and tape

Outlook : We have diy sprocket and chain : It is Nylon on Nylon . Self lubricating Strong Easy repair.

Cheap But repetitively boring to construct. Have run out of nervous energy to complete Love to know if anyone takes it to completion.