Wooden Billy Cart Plans & Build Instructions

A simple design with hours of enjoyment for the kids and a good bonding experience to be had during the build....

Designed by our hard working NDMA Member Chris Rowe
1 Rear Axle (assembled)
2 Seat Front Mount Rail (2 angled holes drilled)
3 Hand Brake assembly (2 holes drilled)
4 Seat Rear Mount Rail (2 angled holes drilled)
5 Front Steering Rail with Mounting bolt and washers in place
6 Real Axle Timber (3 holes pre Drilled in Center)
7 Foot Rest (3 pre drilled holes)
8 Steering Stop Plate (2 pre drilled holes)
9 Steering Rope (not cut to length (can not be used if entering the Billy Cart Event)
10 Front Axle, (assembled)
11 Main Billy Cart Strut (pre drilled for front axle mounting)
12 Plastic Seat
13 Bag of assorted screws to complet the assembly
Lay out the main Strut out on the floor(#11)

Bolt the Front Steering Rail (#5) to the Main Strut
The bolt will face upwards and the pencil line will be under neath (for mounting #8)

when the front Steering rail is mounted it should look like this with the wood washers between the main strut and the steering rail.

on the back of the Main Strut, find the center of the Main Strut to enable th rear Axle Timber (#6) Mounting

Position the rear Axle Timber to the Main Strut using 3 Counter Sunk Screws screw the timber into place ensuring it is Square to the main strut

Position the rear axle above the Rear Axle Timber, you will notice the axle mounting plates are center of the axle (front is different)
Line up the Rear Axle so it is center and equal gaps are present at each end and Screw Down

Line up the Front Axle as pictured so the axle is offset forward so as to miss the center bolt and rope holes and Screw it down

Position the Front Axle above the Steering Rail

Position the Steering Stop Block on the under Side of the Main Strut, you will see a pencil line as a referance, then center the block

Once happy with the steering blocks position Screw it down with 2 Counter sunk screws

Here is the steering block in use it limits the front steering rail from turning too far and leading to possible mishap
Position the Seat Mount Timbers on the Plastic Chair as shown, loosely fit the screws to the timber (ensure the angled holes match)

With the seat timbers and seat loosely mounted Position it on the main Strut at the back end

Line the back of the Rear set mount timber up with the back of the main strut and square it up and screw it down with the counter sunk screws (2 per seat rail from under neath)

Position the Foot Rest (#7) timber in position this is all dependant on the child's most seating position and screw it down with 3 counter sunk screws once centered

Position the hand brake where best for the child this view shows a LH Hand Brake Position
This View shows a RH Hand Brake Position

Fit the rope through the hole in the steering rail from the top down

Tie a not in the rope once the length is confirmed with the child seated

Here is the finished rope position, please note rope steering can not be used in the Billy Cart event, a steel or similar steering hoop must be used for safety reasons (better Control)

The side view of the front Seat mount, it is fairly wide so that if you are to enter the Billy Cart Event you can use this to mount a 200mm by 300mm Competitor number mounting plate

you can use the front steering bolt to mount a Hook for use in the Billy Cart event to enable to tow the cart back up to the top of the circuit Same must be on the back also.