

Child's trolley



The trolley can be steered with the feet while the hands apply the brakes.

Round off long edges of centre board (1) to $\frac{9}{16}$ in. radius. Screw back axle board (2) centrally to centre board, $4\frac{3}{8}$ in. from back edge.

Round off front and back edges of seat board (3) to $\frac{5}{16}$ in. radius. Screw seat board centrally to centre board, overlapping 2 in. at back.

Cut front edge of sides (4) to 75° angle. Round off front corners to $\frac{1}{2}$ in. radius and back corners to $2\frac{1}{2}$ in. radius. Glue and screw sides to edges of seat board so that sides are flush with back axle board.

Rub-joint triangular corner blocks between seat board and sides (fig. 1).

Cut two 1 in. lengths of $1\frac{1}{4}$ in. angle-iron to make wheel-stops (9). Cut one face of each angle down to $\frac{3}{4}$ in. and file $\frac{3}{8}$ in. wide slot in centre (fig. 2). Drill uncut face to take screws. Let wheel-stop into underside of each side, flush with outside face of side and on centre line of back axle board.

Cut back axle $21\frac{3}{8}$ in. long. Place axle in wheel-stops and fix to back axle board with four equally spaced saddle clips, using plastic edging-strip as packing.

Place back wheels on axle, with washer between each wheel and wheel-stop—but

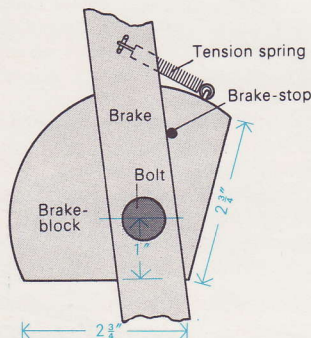


Fig. 3. Brake assembly.

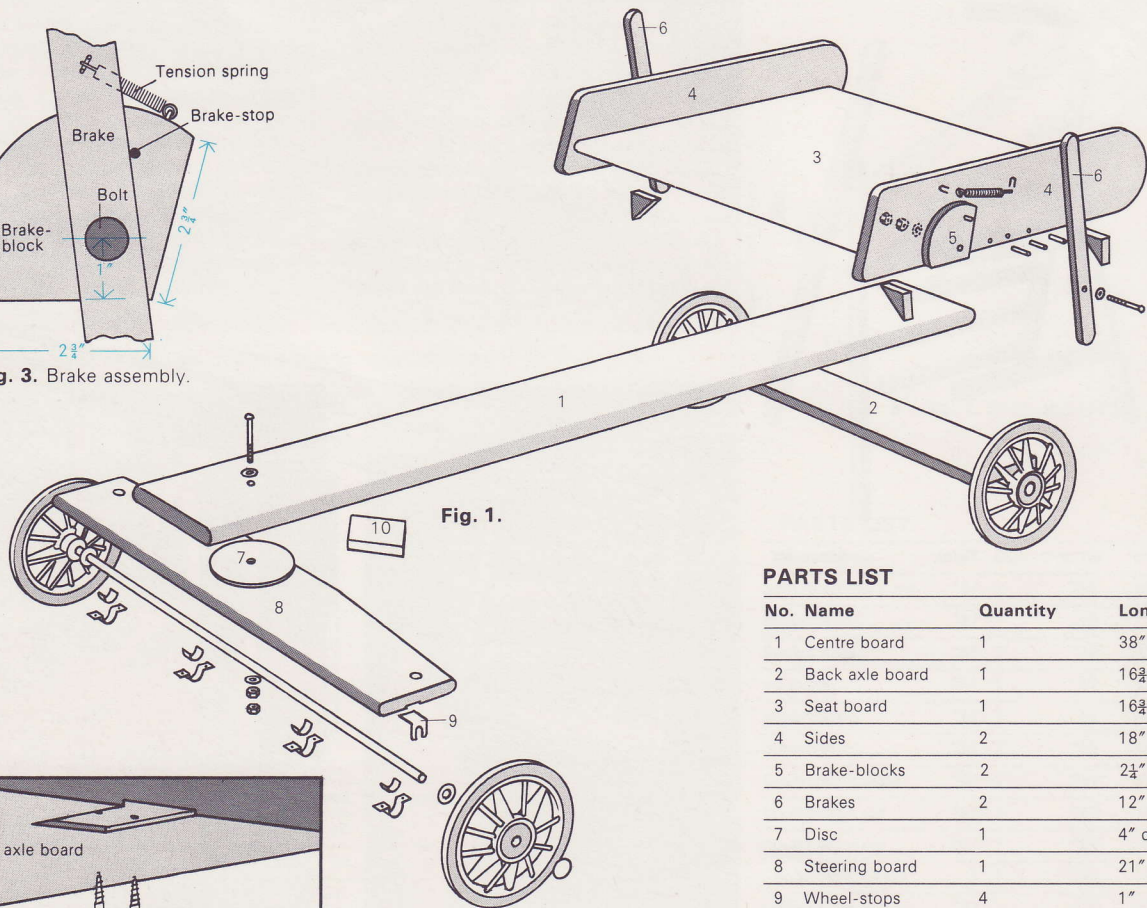


Fig. 1.

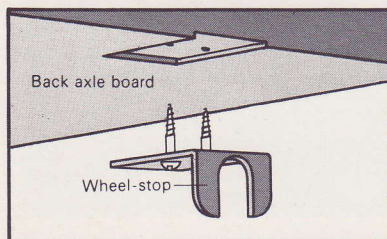


Fig. 2. Wheel-stop let into side.

PARTS LIST

| No. | Name | Quantity | Long |
|-----|-----------------|----------|-----------------------|
| 1 | Centre board | 1 | 38" |
| 2 | Back axle board | 1 | $16\frac{3}{4}$ " |
| 3 | Seat board | 1 | $16\frac{3}{4}$ " |
| 4 | Sides | 2 | 18" |
| 5 | Brake-blocks | 2 | $2\frac{1}{4}$ " dia. |
| 6 | Brakes | 2 | 12" |
| 7 | Disc | 1 | 4" dia. |
| 8 | Steering board | 1 | 21" |
| 9 | Wheel-stops | 4 | 1" |
| 10 | Stop-block | 1 | 3" |

HARDWARE: four 7" dia. Fobel wheels; 48 x $\frac{3}{8}$ " d eight $\frac{1}{4}$ " dia. saddle clips; $\frac{1}{2}$ " wide plastic edging-str. washers; two $1\frac{1}{2}$ " long tension springs; nylon rope

Note: dimensions are finished sizes; when ordering

Trolley /slide/see-saw

do not fit hub-caps yet—to help position brakes accurately.

Cut brake-blocks (5) from $2\frac{1}{4}$ in. dia. discs (fig. 3). Glue each block to sides, just in front of back wheels, with bottom edges flush.

Drill $\frac{1}{4}$ in. dia. hole through brake-blocks at centre of circle. Drill $\frac{1}{4}$ in. dia. hole through centre of brakes (6), $3\frac{1}{2}$ in. up from bottom edge. Round off ends of brakes to $\frac{9}{16}$ in. radius. Bolt brakes and brake-blocks to sides, using washers and two nuts on each bolt.

Screw $1\frac{1}{4}$ in. wood screw into brake-block, cut off head to leave $\frac{1}{2}$ in. projecting and round off end to make brake-stop. Position stop so that, when brake is held against it, bottom of brake will clear wheel by $\frac{1}{4}$ in.

Staple tension spring to back of brake and top of brake-block.

Cut steering board (8) to taper from full width at centre to $3\frac{3}{4}$ in. at ends. Round off back and front edges to $\frac{5}{16}$ in. radius. Drill $\frac{1}{4}$ in. dia. hole through centre board, at centre 4 in. from end, and $\frac{1}{4}$ in. dia. hole through centre of steering board.

Drill $\frac{1}{4}$ in. dia. hole through centre of disc (7), which is to prevent centre board scratching paint on steering board.

Drill $\frac{1}{4}$ in. dia. holes in steering board for rope at centres 1 in. from end and $2\frac{3}{8}$ in. from front edge. Counterbore both holes $\frac{3}{8}$ in. deep on underside with $\frac{3}{4}$ in. dia. bit.

Fit wheel-stops and $24\frac{3}{8}$ in. long front axle to steering board, just in front of bolt, in same way as back axle.

Glue and screw stop-block (10) centrally to underside of centre board so that it prevents wheels touching centre board when steering board is turned.

Finish brake assembly with two coats of clear polyurethane, and paint remaining surfaces. Stencil racing number or cut it from Fablon and stick on.

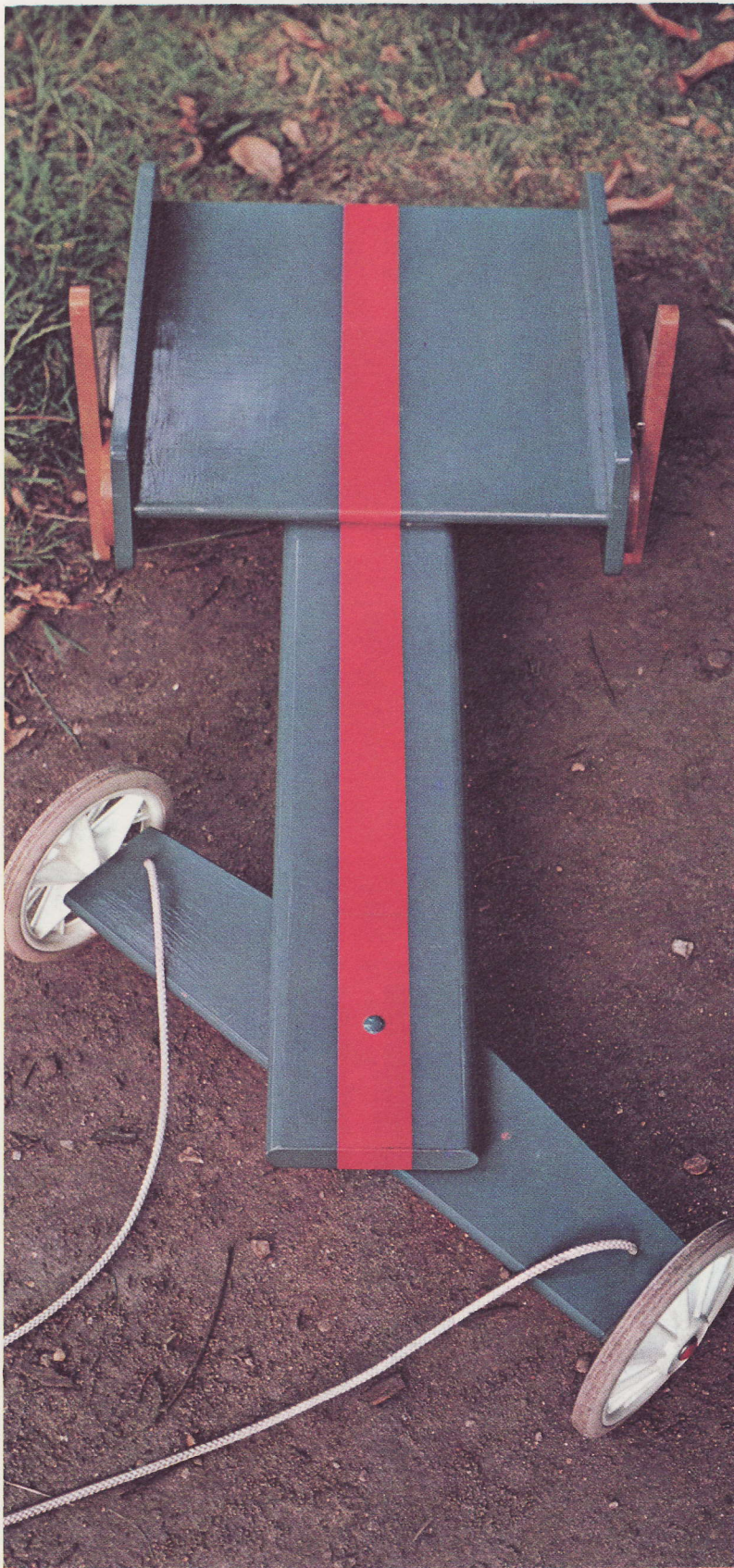
Bolt steering board to centre board with disc between them. Fix wheels in place with hub caps.

Pass nylon rope through holes in steering board and knot ends. Seal ends of nylon rope in flame.

| Wide | Thick | Material |
|-------------------|------------------|----------------------------|
| $5\frac{3}{4}$ " | $1\frac{1}{8}$ " | softwood |
| $3\frac{3}{4}$ " | $\frac{5}{8}$ " | hardwood |
| $16\frac{1}{2}$ " | $\frac{5}{8}$ " | plywood |
| $4\frac{3}{4}$ " | $\frac{5}{8}$ " | softwood |
| | $\frac{1}{2}$ " | hardwood |
| $1\frac{1}{8}$ " | $\frac{5}{8}$ " | hardwood |
| | $\frac{1}{8}$ " | plywood |
| $4\frac{3}{4}$ " | $\frac{5}{8}$ " | hardwood |
| $1\frac{1}{4}$ " | $1\frac{1}{4}$ " | $\frac{1}{8}$ " angle-iron |
| 3" | $\frac{5}{8}$ " | hardwood |

a. Fobel axle with washers; four Fobel hub-caps; three $2\frac{1}{2}$ x $\frac{1}{4}$ " round-headed bolts with nuts and

materials, allow extra for waste



A stop underneath the centre board limits the turning angle of the front wheels.

Designer: Albert Jackson