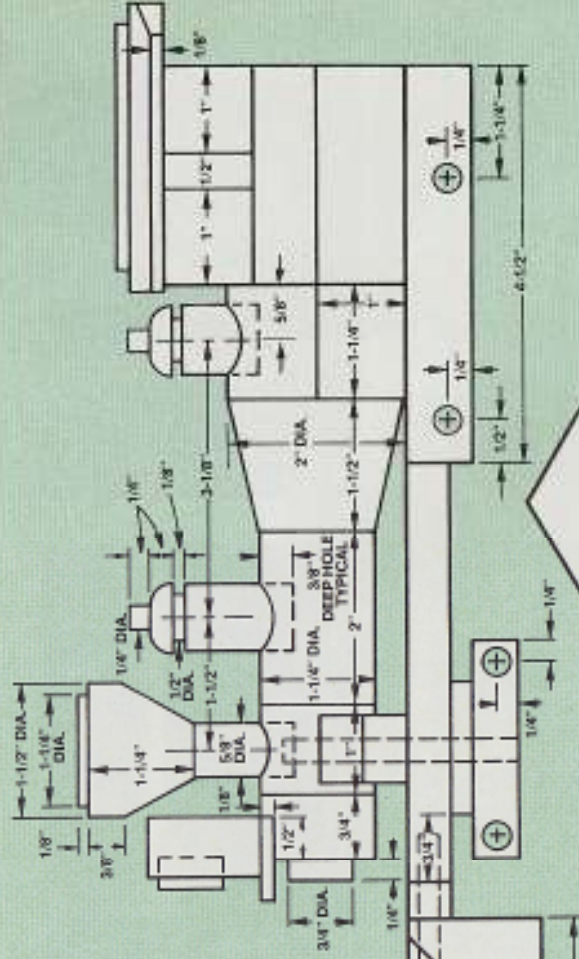


FRONT BOILER SUPPORT LAYOUT



Truck (Wheel) Assembly

1. Cut axle holder (A) and spacer (B) to size. Drill 5/16-in. dia. axle holes then cut the notches in each corner of the axle holder (A) with the bandsaw. Glue the axle spacer to the axle holder.
2. Make the wheels (C) using a 1-in. hole saw for the rim and the 1-3/8-in. hole saw to cut out the wheel.
3. Make the wheel covers (D) using the bandsaw to cut the required angled notches on the 3-1/2-in. sides of a 3/4 x 2-1/4 x 3-1/2-in. piece of stock. Set the fence to cut 1/8-in. slices.
4. Glue the wheels (C) to the axles (E). Sand the axle flush and glue on the wheel covers.

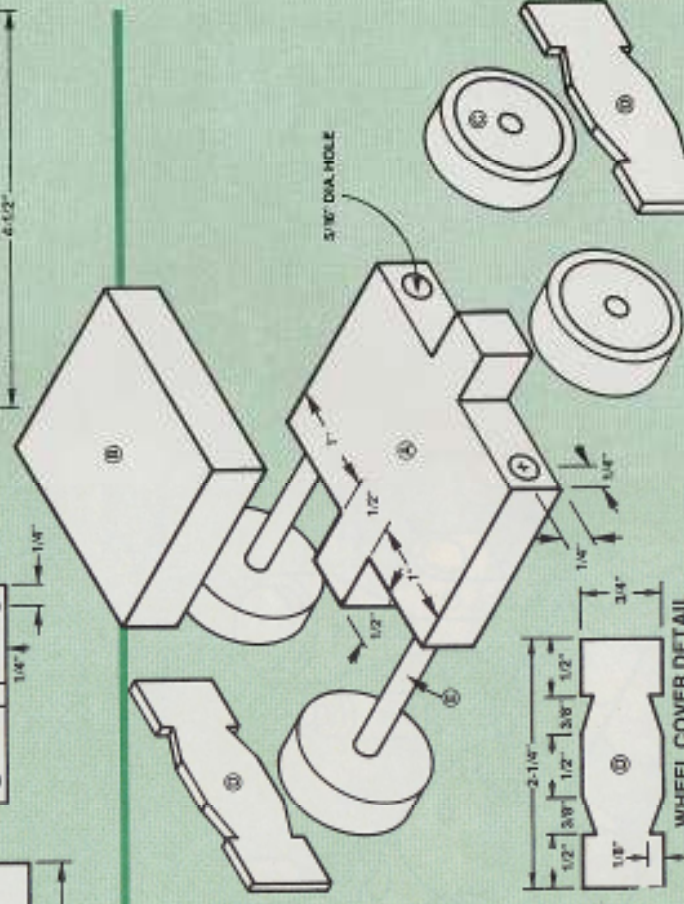
List of Materials

(finished dimensions in inches)

- | | | |
|---|-------------|---------------------|
| A | Axle holder | 1/2 x 2-1/2 x 2-3/4 |
| B | Axle spacer | 1/2 x 1-3/4 x 2 |
| C | Wheels (4) | 3/8 x 1-1/4 dia. |

Roof Assemblies and Bases

1. Resaw 3/4 x 3-1/4 x 10-in. stock on the bandsaw to make two 3/8-in. pieces.
2. Cut the bevel on the roof (B) by tilting the bandsaw table 15°. The edge should be 1/8-in. and leave at least a 1-1/2-in. flat area on the roof top. Chamfer corners 45°.
3. Rip the base (A) to 3-in. width and set aside. Bases are cut to a different shape for each car.
4. Make the roof vent (C) by cutting stock to size and rounding the ends on the disc sander.



- | | | |
|---|------------------|-------------------|
| D | Wheel covers (2) | 1/8 x 3/4 x 2-1/4 |
| E | Axles (2) | 1/4 dia. x 2-7/8 |

List of Materials

(finished dimensions in inches)

- | | | |
|---|-----------|------------------|
| A | Base | 3/8 x 3 x 10 |
| B | Roof | 3/8 x 3-1/4 x 10 |
| C | Roof vent | 3/4 x 1-1/2 x 10 |

Note: The roof and base for each car are made from 3/4 x 3-1/4 x 10-in. stock.

