

2.007 Cookbook: Free Wheel Brackets

Free Wheel Brackets

Used to cantilever free wheels.

Materials:

1" square extruded aluminum box section

Procedure:

1. Mark off two sections slightly longer than 1 inch.
2. On one side mark the center line. Drill two holes per section along the line. Only go through one side. (Drill bit size depends on screw size. Suggestion: 28 Clearance drill for use with #6 screws.) This side is now the top.
3. On one of the two sides adjacent to the top mark the center with a vertical line. The axle hole will go on this line. Where is determined by placement of the 1/2" hole on the motor mount. (The two pairs of axles must be even distances to the ground if the car is going to be even.) Mark the spot and drill a hole that your axle can turn easily within. (For a 5/16" axle -- O or P drill). Drill though both sides.
4. Separate the two brackets from the rest of the stock.
5. Cut the side without holes off. Try to get as close to the inside edge as possible. The inside face should be flat. File down any metal that is sticking out.
6. If material other than the 1" box section is used the free wheel can be balanced rather than cantilevered.

