The Newfoundland Dog Christmas Tree Cart

Original design by Dave Supko, Branchville, NJ. This document illustrates the cart as built by Mark Fernald, following Dave's design.

Long Square Aluminum Tube All dimensions in inches







Short Square Aluminum Tube All dimensions in inches



1 ¼" square aluminum tube 1/8" wall thickness





RACO 1/2 in. EMT Set-Screw Coupling, 5-Pack

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In use, remove the two set screws and mark the location of the holes on the conduit. Drill two 3/32" pilot holes and install two #8 x ½" sheet metal screws to hold the coupler in place.

Includes 5 units (50¢ /unit)

933

Assembly of Cart Frame







The Tree

Made from 1/8" by 2" aluminum flat stock 16" long.



the traces do not need to be adjusted for this cart.

The square tubes are attached to the conduit with ¼ - 20 bolts 1 ½" long. I used ¼-20 hex nuts with a nylon insert as self locking nuts.

Likewise, the V's are attached to the conduit with ¼-20 bolts 2" long.

I obtained the 1 ¼" square aluminum tube from Grainger industrial supply. There happened to be a store near me in Manchester, NH. Do not use 1" square tube commonly available at Home Depot or Lowes. The ¾" conduit requires a 15/16" diameter hole. Not much metal left over with a 1" square tube.

The shafts are ½" steel conduit 60" long. The shafts slide into the ¾" conduit up to the bolts that attach the first V. Shafts are held in place with two ¼" hitch pins 1 ½" long. I wrapped electrical tape around the ends of the shafts so they would fit snugly into the ¾" conduit and not rattle excessively. I used ¼-20 eye bolts as brakes on the shafts, attached with ¼-20 wing nuts with nylon inserts. I put the brakes 8" back from the end of the shaft, but several holes at 1" intervals could be drilled for adjusting the brake for individual dogs. The shafts are not symmetrical and should be marked "right" and "left". I put corresponding marks on the ¾" conduit.

I painted the wood slats before installation. They are attached with 1 ¼" exterior screws with 3/32" pilot holes drilled in the conduit V's. I used 7 slats spaced evenly along the V.

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Ironton 20in. Pneumatic Plastic Spoked Wheel

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Product Summary

The Ironton® 20in. Pneumatic Plastic Spoked Wheel is ideal for garden carts. Has 5 spokes and rim made of rugged, impact-resistant white polypropylene. Aluminum alloy hub has 1/2in. ball bearing bore to fit 1/2in. axle. Black pneumatic tire on plastic wheel has a 150-lb. load capacity.

https://www.northerntool.com/shop/tools/product_200685138_200685138

























