

1: ONE, 2 OR 3 TRACKED RIGID VEHICLES, LIGHT

The Personal Tracked Vehicle (PTV) was conceived in and is the vehicle that started the entire personal tracked vehicle craze; coining the very phrase "personal tracked vehicle." This was my first vehicle and my first set of build plans.

Backbone The backbone provides the core structure of each track. **Continuous Track** Each track chain is a continuous loop of 52 industrial bottle conveyor chain links. **Guide Rail** This serves as a bearing surface for the track chain. On each end, the steel is trimmed and the plastic bent upward to give the proper approach angle of the chain to the sprockets. **Riser Blocks** The wooden riser blocks 3 per track provide space between the backbone and track chain. The ends are chamfered for track chain clearance. Flat sections are machined on the sides to align with the pulley and hub setscrews. **Track Control Handles** Push forward to engage the drive belt tensioner; pull back to engage the brake. **Track Drive Belt Tensioner** The tensioner arm is the key element that engages or disengages the drive belt from the constantly spinning motor. **Understanding the Drivetrain** During operation, the motor is running constantly at full speed, but the tracks are not engaged until the control handles are pushed forward, engaging the tensioner arm and thereby tensioning the track drive belts. To steer, the outside track moves while the inside track remains stopped, forcing the vehicle to pivot around the inside track. To stop, the control handles can be released, resulting in both track-drive belts losing tension; the vehicle will then quickly coast to a stop. To stop faster, both control handles can be pulled rearward, taking the tension off the drive belts and also engaging the brakes. This project is quite involved, but can easily be broken down into multiple, easy to manage modules or sub-assemblies. **Tracks** The tracks are comprised of: The right-hand track is simply a mirror image of the left. **Backbone** The backbone provides the core structure of each track, and is made up of Aluminum T-slot Extrusion chosen because of rigidity and lightness, and provides T-slots for tensioning. The extrusion is cut to length, and then holes are drilled into the extrusion. The guide rail is cut to the overall length, the metal is trimmed on each end, and the UHMWP plastic bent upward on each end to provide the proper approach angle of the chain to the idler and drive sprockets. To bend the plastic ends, clamp one end of bare plastic in a vise, and use a propane torch to carefully heat the plastic close to the stainless steel channel – do not melt! Slightly over-bend the plastic, and hold it in place until it is cool; or, you can pour water onto the plastic to cool it quicker. Once cooled and released, the plastic will spring back to the proper angle. Repeat for the other end of the guide rail. Once both ends are bent, counter-sink the three riser block mounting holes, drilling from the plastic-side of the guide rail, and counter-sinking into the plastic so the riser block screw heads will be slightly below the surface. The proper fit should be a snug, slight press fit of the guide rail in the block groove. Only 3 riser blocks will be used per track, but I found that it was easier to test fit and cut all 6 at once, rather than going through the exercise twice. **Assemble Track Frame** To assemble the track frame, position the 3 riser blocks so that the grooves are down, and place the backbone on top of the 3 riser blocks. Align the front and end blocks so that they are coincident with the ends of the backbone, and the center block with the center of the backbone. Use flat head wood screws to attach each riser block to the backbone. Once the riser blocks are attached to the backbone, gently but firmly press the guide rail into the grooves. Use flat head wood screws to attach each riser block to the guide rail, ensuring that the screw head is flush with the plastic surface. The wood is cut into 4 pieces to length, and then holes are drilled into each block. Repeat for each bearing block. Sprockets can be purchased, but I designed and cut these sprockets to specifically fit the track chain that I was using. After determining the sprocket size and teeth-number and -spacing needed, I made a template and transferred it to Lexan. I then cut the Lexan using a drill for the teeth and a bandsaw. I cut out 8 sprockets total 4 per track. The Drive and Idler Sprocket and Hub assemblies are identical. Hubs can be purchased, but I machined these hubs to fit the sprockets and shaft I was using. After determining the bolt pattern needed for mounting the sprockets, I used a metal lathe to machine a flange in the aluminum, and drilled the 4 mounting holes through the flange. I machined 8 hubs total 4 per track. Remove the sprocket, and drill the marked holes. Repeat for each sprocket and hub assembly. Flats should line up with the pulley and hub set-screw locations. Machining both flats or one long flat on both shafts would make them identical. **Assemble the Track Drive End Bearing**

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Block, Pulley, and Sprocket Assembly The drive end bearing block, pulley, and sprocket assembly is comprised of a sprocket and hub assembly, 2 bearing blocks, a drive shaft, and a drive pulley. On the drive shaft, place a bearing block, a sprocket and hub assembly, and another bearing block, so that both bearings are positioned inward. Lock the hub to the drive shaft on the machined flat via the hub set-screw, and bolt the assembly to the backbone via the drive-end mounting holes on the bearing blocks. Mount the drive pulley to the drive shaft protruding from the inside bearing block for left-hand tracks, the shaft will protrude from the right; for right-hand tracks, the shaft will protrude from the left. Lock the drive pulley to the drive shaft on the machined flat via the pulley set-screw. **Idler End Bearing Block, Brake-Pulley, and Sprocket Assembly** The idler end bearing block, brake-pulley, and sprocket assembly is comprised of a sprocket and hub assembly, 2 bearing blocks, an idler shaft, and an idler brake-pulley. On the idler shaft, place a bearing block, a sprocket and hub assembly, and another bearing block, so that the both bearings are positioned inward.

2: Replacement Tracks Calgary | Parts | Track Industries Ltd.

plans include cad drawings and build manual. and will be delivered via email. price is \$ payment is via pay pals secure server. pay pal account is not required as there is a link on the pay pal page to pay by card.

3: home made tracked vehical | www.enganchecubano.com

As featured on the History Channel series Sold! This is a tracked go kart that I designed and built. The build plans are for sale, visit ebay keyword Personal Tracked Vehicle.

4: www.enganchecubano.com - Mantis Personal Tracked Vehicle Demo & The Adventures of Mantis Man

Personal tracked vehicle This thesis is based on the prototype PTV (personal tracked vehicle) go kart build plans. Using the information from the purchased PTV build.

5: PRINOTH Tracked Vehicles

me and my uncle Scottie(other side of the family this time haha) well anyways we were looking on ebay for go cart parts an d we came across these plans for building ur own PTV (personal tracked vehicle) so we got to thinking and remembered that they sell go cart and mini bike parts in northern tool, and manufacture supply, we would be using snowmobile tracks and cutting the two out side bands.

6: Tracked Vehicle - DIY Go Kart Forum

Find great deals on eBay for personal tracked vehicle plans. Shop with confidence.

7: # What Is She Gonna Look Like With A Chimney

Personal Tracked Vehicle, Drift Trike, Magic Carpet & Mantis QUAD PACK plans out of 5 stars. 1 product rating - Personal Tracked Vehicle, Drift Trike, Magic Carpet & Mantis QUAD PACK plans.

8: LiteTrax Home - Lite Trax

Personal Tracked Vehicles for Homesteaders and Farmers Yvon Martel offers a single or dual "personal locomotive" track vehicle that can be used to haul or pull everything from produce to felled trees around your property.

9: Build Your Kid a Drivable Electric Tank " Vehicles | Make:

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