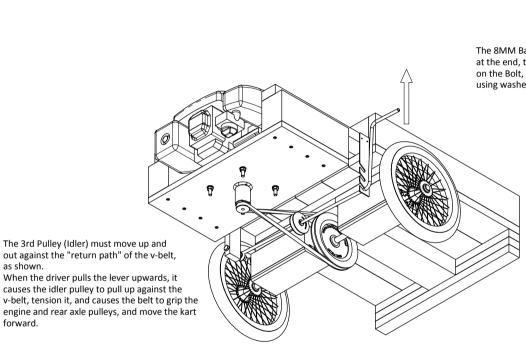
BELT TENSIONER / CLUTCH

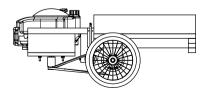
as shown.

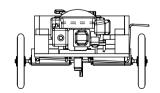
forward.

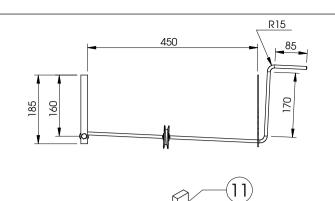
It was mentioned on "Engine Mounting #1" how it would be possible to create a "direct drive" where the belt was left tensioned permanently and the engine mount board screwed into position. This means that once the engine started, the kart would take off. It also meant that in order to stop the kart, the engine had to be stopped.

This page outlines how a 3rd Pulley Wheel can be used as a "Belt Tensioner". A 3rd Pulley wheel is mounted on a lever which can be moved away from, or against the v-belt. When this 3rd pulley wheel moves against the v-belt, it takes up the slack in the belt. tensions it, and causes the v-belt to grip the pulleys on the engine and the rear axle, power is transferred and the kart moves off. (The front of the kart is removed below for clarity.)









The 8MM Bar is bent to shape at the end, to allow it to hinge on the Bolt, and is kept in place using washers and lock nuts.

> Small to medium size v-belt pulley spins freely on the axle. Apply grease.

DETAIL O SCALE 1:2

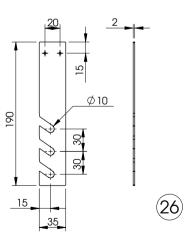


8MM Diameter Steel Bar

Bent to shape.

The 3rd Pulley Wheel spins freely on the 8MM steel bar. It is kept in position using washers and split pins (20 on either side.

Belt Tensioner Keeper This piece is easiest made from 2MM steel plate. Drill three 10MM Holes, and using a Hacksaw remove the rest of the material to form angled slots.





kartbuilding.net TITLE: BELT TENSIONER / CLUTCH



MATERIAL AS SPECIFIED DATE: 17/10/2009 FILE NAME: Main-Wooden-Kart-SIZE: A4

SCALE:1:20 DESIGNER: STEPHEN BURKE

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