## **REAR AXLE ASSEMBLY #3**

As this Rear Axle is "live", the entire axle rotates, along with the Pulley Wheel and the two Spoked Wheels, (As opposed to a dead axle, where only the wheels spin on the fixed axle.) Therefore, both the pulley wheel and the two rear wheels must be fixed or welded to the rear Axle. The easiest and quickest method to fix the Spoked Wheels and Pulley to the Axle is to weld them. This requires that the Pulley Wheel and Spoked Wheels have metal / steel hubs which can be welded to the metal Axle. It also requires the use (or borrowing, or asking someone) of a welder.

It may be possible however to secure the pulley wheel and the two spoked wheels to the Rear Axle without the use of a welder. While it is advised that a wheel with a metal hub/center is used, on a last resort it may be possible to use a wheel which has a hard plastic hub, and to secure this to the Rear Axle. This page describes how to do this.



Step 1:

of the wheel.

Place Axle through the center

(Wheel cut in half above for clarity)

Step 1: Drill a 5MM Hole through the Pulley close to the center hole. Clean and file / grind square.



Step 4: Drill 2 Holes of diameter 2MM on either side of the pulley.



Step 2:

Drill a 5MM diameter hole

through the center of the

wheel and axle together.

Step 2: Insert the Axle into the center hole.



Step 5: Insert 2 Split Pins. These will prevent the pulley wheel from rotating, and also



stop the pulley from moving side to side.



Securing the Pulley

to the Axle

Securing the Wheels to the Axle

Step 3: Insert a 5MM Bolt into the hole. Tighten a nyloc locknut in place to prevent it from loosening.

