CAROTATOR Assembly Instructions.

Lay the base member with the two casters on the floor with the socket up.

Insert the base unit with the single caster into the socket and tighten the two set bolts securely. Grease all the zerks on the casters. There is a zerk on both the axle and the turntable.

Right the unit onto the casters. Grease the "male" pillar liberally by pumping grease onto it and smearing it all over with a rag. Slide the large "female" pillar / pivot assembly onto the vertical "male" pillar. Grease the pivot by removing the set bolt and pumping about 20 pumps through the square nut.

Install the hydraulic cylinder by passing the 5/8 x 2-1/2 bolt through the clevis on the bottom of the cylinder and the bracket on the base socket. Tighten the nut securely. Slowly pump up the cylinder and guide the shaft into the socket on the bottom of the large pivot tube. Align the holes at the bottom and insert the hitch pin.

Install the support arm into the pivot bracket socket and secure with the hitch pin.

Slide the support cross member onto the horizontal member of the support arm.
Repeat for the other end unit.

These photos show both units together with the center bar and the center bar coupling socket. If you picked up your CAROTATOR, the center bar will be in one piece and there will not be a coupling socket. Normally you will not assemble the center bar until assembling the car on the CAROTATOR.

Now the fun begins! Support your car body by whatever means you have available. I recommend that you raise the body clear of the frame and support it on two 12' long 4x4's and set the 4x4's on horses or 55 gal drums so that you can roll the frame from underneath the body on its own tires. Once the body is supported and the mounting points are accessible, you are ready to mount the body on the CAROTATOR.

Position one of the assembled CAROTATOR units behind the body and assure that the body is high enough to roll the unit underneath.

Set the attach brackets at the same distance center to center as the holes you will be using to secure the car body to the CAROTATOR. Be sure you position the attach brackets the same distance either side of the center of the horizontal support arm.

Once the attach brackets are properly spaced, roll the CAROTATOR unit underneath the car and raise it using the hydraulic ram to mate with the body. Using a small block of wood or plywood between the attach bracket and the car body will give a better grip and prevent slipping and creaking as you rotate the body.

A couple more views of the CAROTATOR half being placed under the car body.

Repeat the above on the other end of the car. You can insert the center bar into the second half as shown at this time and mate it to the other CAROTATOR half as you place the second half as shown here, or wait until last to install the center bar.

Now it is time to make the final adjustments so that you can turn your car body 360 degrees with one hand.

The balancing portion is accomplished by trial and error. First take a guess at where the center of gravity of the body is and raise the support arm in the pivot bracket so that the pivot is at the center of the car. (See upper photo) Try to rotate the body. If it gets heavier as you rotate, the car is to low on the CAROTATOR. If it gets lighter, it is too high. Try various positions until there is not much change in the force it takes to rotate the car.

Once you have the car body balanced, it is necessary to raise the pillar to allow enough vertical clearance to rotate the carbody 360 degrees. (See middle photo)

The lower diagram shows the parts of the CAROTATOR and their names for reference. If you have any problems, be sure to give me a call. I value satisfied customers. My home phone is 209-966-6200, my cell is 209-777-4801

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Happy Carotating!!