V1 Wheel Installation Instructions

Follow this link below for our 'How To' videos:

https://www.sunmountain.com/how-to-videos#speedcart-front-wheel

https://www.sunmountain.com/how-to-videos#speedcart-rear-tires

https://www.sunmountain.com/how-to-videos#speedcart-brake-cable

Tools Needed: Safety Glasses; 19MM Wrench (to remove Wheel Nuts); 10MM Open End Wrench; 3MM Allen Head Wrench, P1 Screwdriver; P2 Screwdriver; Plyers, or Flat Head Screwdriver; Plastic, or Rubber, Mallet (a Hammer will work if needed).

Note: The Axles for V1 Wheels are specifically designed for V1 Wheels.
Other Axles will not work on V1 Wheels. V1 Axles will not work on other Wheels

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(These Instructions have two sections, V1 Wheel Installation Instructions, and V1 Brake Pin Housing Installation Instructions.)
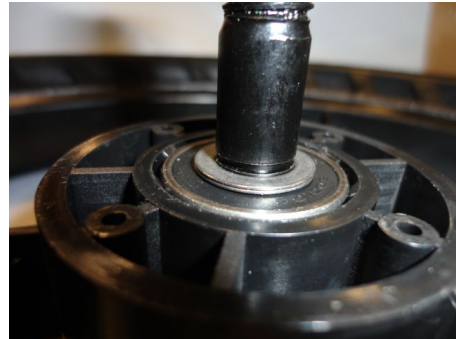
V1 Wheel Installation Instructions

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Insert Rear Axle. The O-Rings are tight, and the Axle should be pounded in firmly using a Rubber, or Plastic, Mallet.

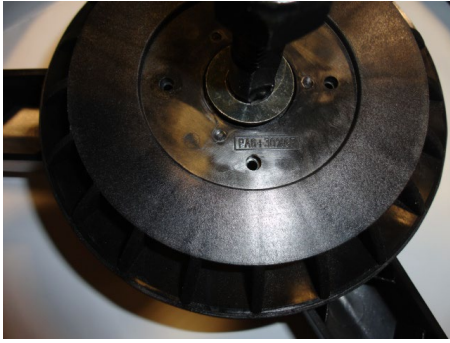If the E-Clip slot is too far out, Shims, or an extra Washer, may need to be added.

WEAR SAFETY GLASSES WHEN ADDING E-ECLIPS! Use Plyers, or a Flat Head Screwdriver, to add the E-Clip.

Add Rear Wheel Center Cap. Start the Cap off slightly ajar, then twist it into place.   *Wheel Instructions Page 1 of 3 (Over)*

Ensure the Brake Disc is seated so that it does not spin.
After the Axle is installed, use the P1 Screwdriver to attach the Brake Disc on one Rear Wheel.
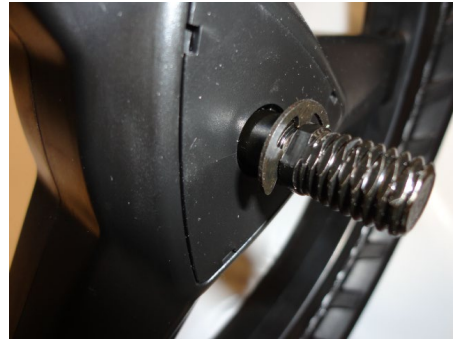

WEAR SAFETY GLASSES WHEN ADDING E-ECLIPS! Add an E-Clip to inner slot of the Cap Side of the Front Axle.
Install the Front Axle with the Cap Side out of the Deep Cavity of the Front Wheel.

WEAR SAFETY GLASSES WHEN ADDING E-ECLIPS!
If the E-Clip slot is too far out, Shims, or an extra Washer, may need to be added.

Add Front Wheel Center Caps. Start the Cap off slightly ajar, then twist it in place.

WEAR SAFETY GLASSES WHEN ADDING E-ECLIPS!

Use Plyers, or a Flat Head Screwdriver, to add the E-Clips to the outer E-Clip slots.

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The following Instructions are for the Installation of the Brake Housing for the V1 Disc Brake Style Brake System.

If you want to use V1 Wheels on a V1 Cart with the Caliper Style Brake System (Not recommended.), contact Sun Mountain Sports Customer Service, to order a set of Low Profile Brake Pads, 005-050A (High Profile Brake Pads will not work on V1 Wheels).
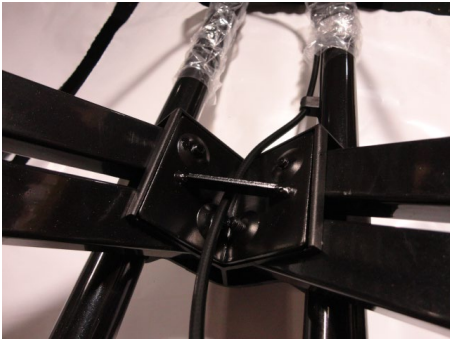**If you also need a new Brake Cable, order a V1 Brake Cable Kit, 005-419.**

(Over)

V1 Brake Pin Housing Installation Instructions

Note: Installation must be done with the Right Rear (Brake Side) V1 Wheel Off the Cart.
Tools Needed: Safety Glasses; 19MM Wrench (for Wheel Nuts); 10MM Open End Wrench; 3MM Allen Head Wrench, P2 Screwdriver.

Thread the Brake Cable (in the Brake Cable Sheath) through the slot in the back of the Mid Brace (009-006).

Use the P2 Screwdriver and the 10MM Open End Wrench to remove the two Screws (005-029), and two Nuts (SV1-202), attaching the Right Wheel Fitting (005-012R).

Insert a Rectangle Head Screw (SV1-208) into the inside Rectangle slot of the Brake Housing Adaptor, as shown.
Place the Brake Housing Adaptor on the Right Wheel Fitting (005-012R).
Ensure the Rectangle Head Screw is seated in its slot.
Use the P2 Screwdriver and the 10MM Open End Wrench to attach the Break Housing Adaptor to the Right Wheel Fitting (005-012R), using the two Screws (SV1-207), and two of the M6 Nylon Nuts (SV1-202), included.

Attach the Brake Housing to the Brake Housing Adaptor using a 10MM Open End Wrench, the remaining Rectangle Head Screw (SV1-208), and two M6 Nylon Nuts.

Installing and Adjusting the Brake Cable

Put the Brake Lever in the 'Brake On' (Down) position.
Twist the Brake Pin until you can see the threads in the Brake Pin.

Check to ensure the Upper and Lower Brake Cable Adjustment Studs are screwed all the way in.
If not, loosen the Nuts with the 10MM Open End Wrench, twist the Studs in, and retighten the Nuts.

Pull the end of the Brake Cable out of the Brake Cable Sheath as far as possible, then check to ensure the Stud at the end of the
Brake Cable will reach beyond the threads in the Brake Pin.

Push the Brake Cable through the Brake Cable Adjustment Stud and into the Brake Pin until the Stud at the end of the Brake Cable is beyond the threads in the Brake Pin.
Note: Needle Nose Plyers may be needed to get leverage on the Brake Cable.
Use the 3MM Allen Wrench to Insert the Hex Head Screw (SV1-203) into the threads of the Brake Pin.

Brake Cable Adjust Studs.

Put the Brake Lever in the 'Brake Off' (Up) position until the Brake Lever locks into position.
Put the Brake Lever in the 'Brake On' and 'Brake Off' position several times to set the Brake Cable.

If the Brake Pin does not move far enough out of, or in to, the Brake Disc, or the Brake Lever is too difficult to pull to the 'Brake Off' (Up) position; the tension of the Brake Cable can be adjusted using the Brake Cable Adjustment Studs. Use the 10MM Open End Wrench to loosen the Nut, turn the Brake Cable Adjustment Stud out a few threads, then retighten the Nut. Repeat this procedure as needed until the Brake Pin moves out of, and in to, the Brake Disc properly.

Brake Lock Out
If the Brake Cable fails, you may need to disengage the Brake Pin.
To do so, pull Hex Head Screw (SV1-203) back and into the locking slot as shown.

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