

## Steering While Driving: ½" PVC Pipe with Set-Screw Stop Instructions

### Items needed:

- (1) ~10" piece of ½" PVC pipe
  - (2) ½" PVC caps for the ends of the pipe
  - (2) #4-40 x 1¼" bolts
  - (4) #6 washers
  - (2) #4 acorn nuts
  - (1) ¼" x 2" hex head course-thread bolt
  - (2) 1/4" course-thread nuts
  - (1) ¼" course-thread acorn nut
  - (1) Big Red Switch
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### To install:

Remove clear plastic cover from the switch. (You will not be using it.)

Keep the red, blue, yellow or green lid on the switch. Tighten the lid.

Use a 5 ¼" template with a horizontal and vertical line and 3 holes.

Place the template on the switch and mark the 3 holes on the color lid. (1)

Unscrew the color lid from the switch.

Using a 7/64" drill bit, drill the 2 outer holes on the lid. (2)

Measure and mark the middle of the 1/2" PVC pipe.



Line up middle of the PVC pipe with the middle of the template. Mark where the 1<sup>st</sup> hole needs to be drilled in the PVC pipe. (3)

Drill one hole in the PVC pipe using the 7/64<sup>th</sup> bit. Make sure to have the drill vertical.

Secure one side of the PVC pipe on the by feeding the #4 bolt from the bottom of the lid, place 2 #6 washers on the top of the lid as spacers, put the PVC pipe on and loosely tighten with an acorn nut.

Turn the lid upside down. Make sure that the middle of the PVC pipe is lined up with the 2<sup>nd</sup> hole on the color lid. Drill through the hole in the lid and through the PVC pipe. (4)

Secure 2nd side of the PVC on the lid by feeding the bolt from the bottom of the lid, place 2 #6 washers on the lid as spacers, put the PVC pipe on and loosely tighten with an acorn nut.

Tighten both bolts/nuts with a screwdriver and a crescent wrench. (5)

Place 2 small pieces of foam under the black bars of the switch to help the switch be able to move to the off/up positions.

Put the 1/2" PVC caps on the ends of the PVC pipe.

Put the lid with the bar on the switch. Make sure it is on tight.



(1)



(2)



(3)



(4)



(5)

When the child is using the PVC bar to steer the lid may unscrew when the child turns to the left. **A “stop” needs to be added.**








With the lid with the bar on the switch, tighten the lid. Keep the switch in the up position. With a 1/16<sup>th</sup> drill bit, drill a hole through the lid and the threads. Then use a 7/64<sup>th</sup> drill bit and drill in the same spot.

Open the lid and make sure that there aren't any shards of plastic that could hang the switch up.

Put the lid back on and secure the lid with 2 #6 washers and a 3/8” screw. (See pictures on page 1.)

Decide where the wire is going to go and feed it through the steering wheel and dash.

Make sure that the wheels are facing forward, attach the switch to the steering wheel with zip-ties. You may want to Velcro the switch to the steering wheel to hold it in place while you zip-tie. Cut off the ends of the zip-ties and file them smooth. Wire the switch into the device.

<p>(2) #4-40 1 1/4” bolts</p>	<p>Lowes</p>			<p>(2) #4 acorn nuts</p>	<p>Grainger.com</p>		
<p>(6) #6 washer s</p>	<p>Lowes</p>			<p>(1) #6 x 3/8-in Socket Hex- Drive Sheet Metal Screw</p>	<p>Lowes</p>		<p>Item # 57676 Model # 490231</p>

