

Valve stem change without removing the tire.

Alright y'all you gotta keep this secret cause if this little Mo Sheen invention gets out someone's gonna try and patent it and I won't get no royalties of it. 🤔😏

I've got a tire machine but this is for the guys who don't.

So the real purpose of this post is to get those junk OEM half metal stems off your bike, cause friends don't let friends ride on OEM stems.

Comments in the pics, hope it helps? Thanks

Edit: I added more pics and measurements for building this



(left) This is a OEM stem, the metal part of the stem stops right where it meets the rim. They put a little plastic crutch under it to keep it from breaking off 😏.

Many failures have occurred with these stems and many have found themselves setting on the side of the road with a flat tire, if their lucky? Could have been being air lifted out of the ditch on the way to the hospital. Not sure why they continue to use these stems?

(right) Need to remove the life saving plastic crutch



(left) Remove the valve core to let the air out of the tire.

(right) I've got less than 3' of 2x4 and about a foot of all thread, 3 nuts, a hinge and a few screws and washers invested in this.



(Left) The hinge lets it fold on the short side to push the bead over on the rim.

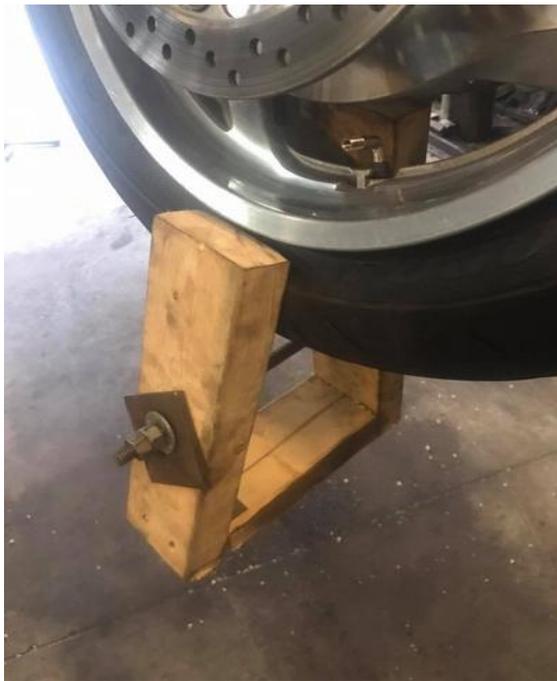
(right) Here you can kinda see how it's put together



(right) Need to remove the life saving plastic chock



(right) Remove the valve core to let the air out of the tire



(left) The short side goes up lower than the edge of the rim



(right) The longer side goes up on the rim but below the brake rotor.



(left) I have 2 nuts together so this side I can turn with my impact wrench without the nut moving and making my socket too short

(right) The other side has one nut I hold a wrench on so the nut stays stationary and the rod spins through



(left) Once I get it squeezed the valve stem can now be removed

(right) This is how they break out on the road too.



(left) This one is metal all the way from top to bottom. This is a Meyers 90 degree stem. I order 10 every time I get a new tire from jakewilson.com

(right) Took it apart so I can put the stem in the rim.



(left) Push it up from the inside of the rim

(right) Hold it in while you get the top together



(left) 1st the rubber washer goes on the stem



(right) 2nd the metal washer, push it down as much as you can to make room for the nut to fit on.



(left) 3rd the nut goes on



(right) Tighten the nut gently down with a 9/16" wrench don't over tighten it.



(left) Just enough to squash the rubber washer a little, there is also a rubber washer on the bottom inside the rim so it will seal without over tightening it and splitting the rubber washer.

(right) Then just for looks to cover the silly notch in the rim you can put the crutch back on to cover the gap.



(left) Then loosen the nut on the back and remove the Mo Sheen

(right) Add air to your desired pressure