

## Tire and Tube Removal and Installation

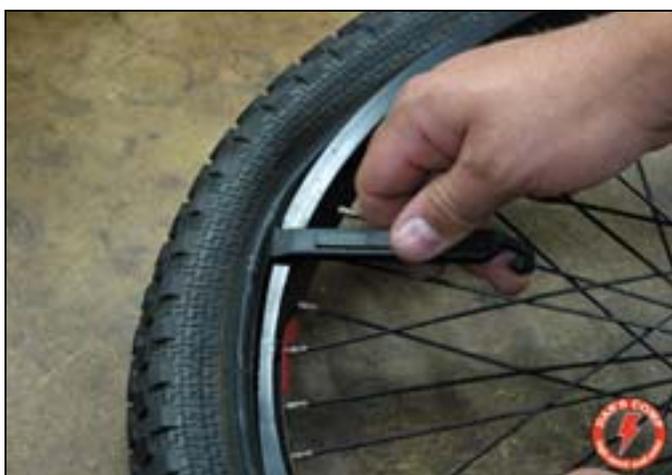


### Tools Needed

- Tire Levers
- Air Pump with gauge

### Step One

- Deflate the old tire as much as possible. You may have to use the hooked end of the tire lever to get all of the air out of the tire.



### Step Two

- With the tire deflated, slide the rounded end of the tire lever under the bead of the tire. For some tires, one tire lever may be enough to remove the tire. If so, use the tire lever to pull the bead of the tire up and over the sidewall of the rim by prying the bead of the tire over using the rim as leverage. Then slide the tire lever around the sidewall of the rim underneath the bead of the tire until the tire comes over the sidewall of the rim on the side you are working on.

*These instructions are to be used as a guide only. Improperly installed parts may lead to severe injury or harm. We strongly recommend that a properly trained bike mechanic handle all installations, adjustments and repairs on your bike. As always...Ride Safe!*

### Step Three

- For tires that fit tight on the rim, you will have to use more than one lever. The first tire lever will be placed “round end first” under the bead of the tire. Pry the bead of the tire over the sidewall of the rim by pulling the tire lever down towards the spokes of the wheel using the rim as leverage while ensuring that the tire lever stays under the bead of the tire. Hook the hooked end of the tire lever onto one of the spokes that it is closest to. This should make more of the bead of the tire come over the side of the rim. Use the second tire lever to pull the bead of the tire up and over the sidewall of the rim by prying the bead of the tire over using the rim as leverage. Then slide the tire lever around the sidewall of the rim underneath the bead of the tire until the tire comes over the sidewall of the rim on the side you are working on.



### Step Four

- After one sidewall of the tire is off the rim, you can now remove the tube from the tire.
- The other sidewall of the tire may come off by hand. If not you will have to use one or all three tire levers. You will have to repeat steps One and Two depending on what tire you have.
- If the tire and tube you just removed are still decent, it's always a good idea to save them so you can have spare around when you need them.

### Step Five

- Before you start to install your new tire, check the rim for small burs or debris that may be inside the rim. Remove burs with a small file and clean all dirt and debris out of the rim. Also make sure your rim strip is free of holes and tears. If the rim strip has holes or tears in it then it needs to be replaced.
- Inflate the tube just enough so that it takes shape.
- Place the lightly inflated tube inside of the tire.
- Check the sidewall of the tire to see if there is a rotation direction before installing it on the rim.
- Place part of the tire bead over the rim, so that you can get the valve stem of the tube in the valve hole of the rim.



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### Step Six

- With the valve stem in the rim, use your hands to push the bead of the tire the rest of the way on the rim. Remember that you are only doing one bead at a time, the tube and the other bead of the tire should still be outside of the rim. If the tire cannot be pushed on by hand, then you will have to use one tire lever to get it the rest of the way on. Insert the tire lever between the rim and the bead of the tire and pry upwards. This motion will force the bead of tire upward and over the rim.
- Once you have one bead of the tire on, stuff the tube inside of the rim so that the only thing on the outside of the rim is the last remaining bead of the tire.

### Step Seven

- Install the other bead of the tire inside the sidewall of the rim. If this cannot be done completely by hand, install as much as possible, then use the tire lever as done in step five to finish. When using the tire lever, make sure you do not pinch the tube between the tire lever and the rim.
- With the tire and tube all the way on the rim, inflate the tube some more. Only inflate the tube so that the tire will take some shape. If you use too much air the tire can come off of the rim and bust the tube.



### Step Eight

- With the tire inflated slightly, check the bead of the tire to make sure it is seated properly. To do this, spin the wheel and watch the bead of the tire at the edge of the rim. The bead should be consistent all the way around the rim. If it is not consistent then you will have to remove high spots and low spots by hand. Pull the low spots up and push the high spots down until you can spin the wheel and the bead is consistent all the way around the rim.
- Once the bead is set then you can fill the tire the rest of the way up with air. Do not exceed the maximum tire pressure stated on the side of the tire. After desired pressure is reached, check the bead one more time to make sure the increased air pressure did not make the bead inconsistent.

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