Name

Professor

Class

Day Month Year

How to Change a Flat Tire?

When you are about to leave for work in the morning and suddenly you discover that your car is having a flat tire—this event is potent enough to ruin your morning than anything else. Tires, unfortunately, do not last very long particularly in hot summer, extreme heat and friction-rich rough roads.

Following steps can be undertaken to change flat tire (Benjamin 2017; The Bridgestone 2017; Zachary 2018):

1. **Preparing to remove flat tire**
2. ***Collecting tools and items to change flat tire:*** jack, lug wrench, fully inflated tire for replacement, wheel wedges, gloves, small cut of wood for securing the jack, rain poncho and flashlight with operational batteries.
3. ***Finding an appropriate location for further operations****:* avoid changing tire on busy roads or parking areas. Find appropriate place with less traffic flow and minimal distraction.
4. ***Turning the hazard lights on:***hazard lights enable other drivers to see you working on the vehicle which eliminates the probability of accidents.
5. **Performing operations to remove the flat tire**
6. ***Applying the parking/ hand brake:*** it will minimize the probability of rolling car and performing operations successfully.
7. ***Applying wheel wedges:*** wheel wedges are placed either in front or behind the tire and further ensure that vehicle remains in the same place.
8. ***Removing wheel cover and hubcap:*** hubcap can be removed using flat end of the lug wrench. Remember, this step is highly vehicle specific in nature.
9. ***Loosening the lug nuts:*** lug wrench is used to loosen the nuts through moving it in anti clockwise direction until friction is completely removed.
10. ***Inserting jack under the car:*** the best place for inserting jack is alongside vehicle frame right beneath the flat tire.
11. ***Raising the vehicle with the help of jack:*** a wooden cut is used to prevent jack settling under the vehicle weight and becoming off the balance. Then, it is raised until it reaches 6 inches above the ground.
12. ***Unscrewing the lug nuts:*** this process can be done using hand because lug nuts underwent loosening in the procedure mentioned above.
13. ***Removing the flat tire:*** tire is pulled gently unless it is removed from the hub.
14. ***Mounting and sparing tire on the lug bolt:*** lug bolts are used to align the rim for placing the spare of the hub
15. ***Tightening the lug nuts by hands:*** lug nuts are placed and tighten again on the nut bolts
16. ***Lowering the vehicle:*** jack is again used to lower the vehicle down
17. ***Tightening the lug nuts again:*** lug nuts are tightened again with the help of wrench
18. ***Replacing the hubcap:*** if hubcap of flat tire fits the spare, it will be replaced in the tire the same way it was removed. If not, it will be stowed with equipments
19. ***Stowing all the equipments after use:*** keeping all the equipments at one place for further use
20. ***Examining the pressure in spare tire:*** 6psi is the optimal pressure required by the tire.
21. ***Keeping the tire inside the car for taking it to the technician;*** same process
22. **Plugging in the new tire**
23. ***Applying tire bead lubricant to the rim and tire beads:*** bead lubricant is a slippery liquid which allows beads to set in the rim perfectly.
24. ***Using machine to install new tire:*** new tire is installed by reversing the steps of removing tire.
25. ***Spraying more bead lubricant on the rim and beads:*** this is done to set the beads on the rim
26. ***Re-inflating the tire to its maximum pressure:*** it is inflated till the maximum pressure limit is reached i.e., 6psi.

Above mentioned steps are used for *do it yourself (DIY)* scheme of changing flat tire successfully. It must be noted that initially, it might be difficult for some to fix the tire appropriately but practice certainly makes a man perfect at some point!

Works Cited

Benjamin Preston. “Do It Yourself: How to Install Tires Correctly.” *The Drive,* 2017. <https://www.thedrive.com/gear-up/3298/do-it-yourself-how-to-install-tires-correctly>. Accessed 26 Apr. 2019.

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