# Flat Tire Replacement

This playbook provides a detailed guide on safely and correctly replacing a flat tire with a spare tire on the side of the road. It includes steps for preparation, removal, and installation of the spare tire.

### Step 1: Safety First

Ensure your vehicle is parked on a level, stable surface away from traffic. Turn on hazard lights and apply the parking brake.

### Step 2: Wheel Wedges

Place wheel wedges behind or in front of the tires to prevent the vehicle from rolling.

### Step 3: Remove Hubcap

If your vehicle has a hubcap covering the lug nuts, remove it. Use the flat end of your lug wrench to pry it off.

### Step 4: Loosen Lug Nuts

Using the lug wrench, turn the lug nuts counterclockwise until you break their resistance. Do not remove them completely yet.

### Step 5: Lift Vehicle

Place the jack under the vehicle at the designated jacking points. Raise the vehicle until the flat tire is about six inches off the ground.

### Step 6: Remove Lug Nuts

Now that the car is lifted, remove the lug nuts all the way. Keep them all together and in a safe place.

### Step 7: Remove Tire

Grip the tire by the treads and pull it gently toward you until it's completely free from the hub.

### Step 8: Mount Spare

Place the spare on the hub by lining up the rim with the lug bolts. Push gently until the lug bolts show through the rim.

### Step 9: Replace Lug Nuts

Put the lug nuts back on the lug bolts and tighten them by hand as much as you can.

### Step 10: Lower Vehicle

Carefully lower the vehicle back to the ground and remove the jack.

### Step 11: Tighten Lug Nuts

Using the lug wrench, tighten the nuts even further. Follow a star pattern to ensure even tightening.

### Step 12: Replace Hubcap

If you have a hubcap, put it back in place or store it in the vehicle if it doesn't fit on the spare.

### Step 13: Stow Equipment

Put away all tools and equipment including the jack and lug wrench. Make sure the flat tire is stored in your vehicle if it's not left behind.

### Step 14: Check Pressure

Ensure the spare tire is inflated to the vehicle manufacturer's recommended pressure.

## General Notes

### Required Tools

Verify you have a lug wrench, jack, wheel wedges, and spare tire before beginning the process.

### Caution

Never get underneath a vehicle that is only supported by a jack. Always use jack stands if you need to go under the vehicle.

### Spare Tire Limitations

Be aware that spare tires are often 'donut' spares and not meant for long-term use or high speeds. Check your vehicle's manual for specifics.