



Repairing Tire Hole/Puncture

Repair a hole or puncture in your tire by using a tire plug.

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INTRODUCTION

Flat/leaky tires are a part of life. Tires are made of rubber and therefore can be punctured. While there is little anyone can do to prevent this, a simple fix is available. When a nail or any other sharp object punctures a hole in a car tire it causes the tire to leak air consistently, which can be very dangerous if not fixed. Using a few simple tools, a punctured tire can be fixed using a tire plug. Remember to be sure to perform the repair on level ground. The car engine should be off and the parking brake engaged.

TOOLS:

- [Air compressor \(1\)](#)
- [Tire Plug Kit \(1\)](#)
- [Slip Joint Pliers \(1\)](#)
- [Spray Bottle \(1\)](#)
- [Soapy Water \(1\)](#)
- [Old Rag \(1\)](#)
- [Air Pressure Gague \(1\)](#)

Step 1 — Repairing Tire Hole/Puncture



- Wipe the surface of the tire with a rag to remove any loose dirt, rocks, or debris.

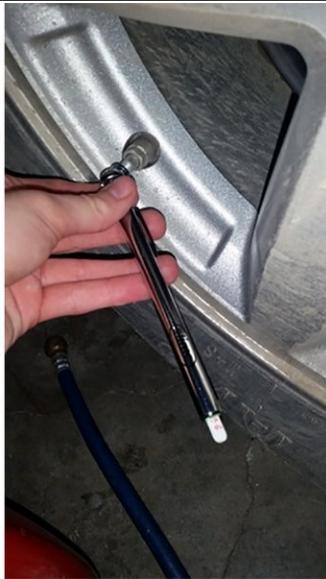
Step 2



- Using the air compressor, air the tire up to the original recommended weight for the vehicle.

(i) Air is expected to continue to leak out so do not worry if you cannot get it perfect.

Step 3



- Use the air pressure gauge to make sure the tire is now aired up to its original pressure.

Step 4



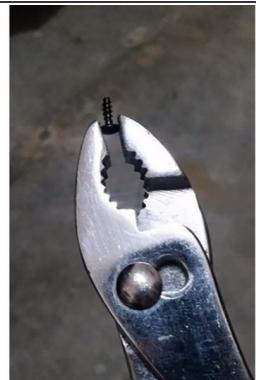
- Spray the surface of the tire completely with the soapy water.

Step 5



- Look for tiny air bubbles forming from the leaking air and soap combination, this is where the hole is located.

Step 6



- Once the hole is located, remove any foreign objects with the pliers if present.

i Any object that is stuck in the tire, or puncturing the tire is considered a foreign object. These may include sharp objects, commonly seen as nails, screws, or pieces of metal.

Step 7



- Insert the reamer into the puncture.
- Work the reamer in and out while twisting to clean and prep the puncture.

Step 8



- Put the plug into the insertion tool.

Step 9



- Insert the plug into the punctured area, leaving about $\frac{1}{4}$ inch of the plug above the surface of the tire.
- Yank the insertion tool so the plug remains in the tire, but the tool releases.
- Cut the remaining plug so it is flush with the tire.

Step 10



- Refill the tire to the proper pressure.

Step 11



- Use the air pressure gauge to make sure that the tire is back to its original air pressure.

To reassemble your device, follow these instructions in reverse order.