



2010-2017 Suzuki Swift Front Springs Replacement

This guide will show you how to replace the front wheel springs (or struts).

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INTRODUCTION

The factory springs can be replaced for several reasons, they might be broken or uneven from years of uneven load. You can also replace the factory springs with higher or lower ones.

Since replacing the spring involves the disassembly of the strut, if you're replacing the entire strut, you can also use this guide.



TOOLS:

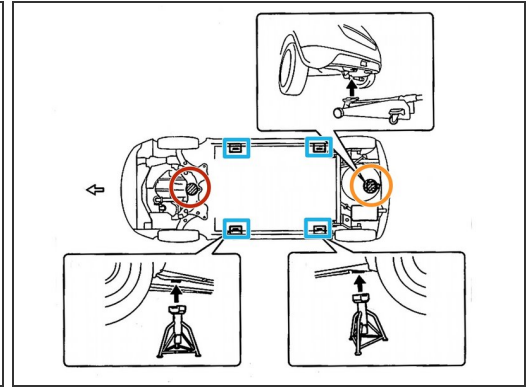
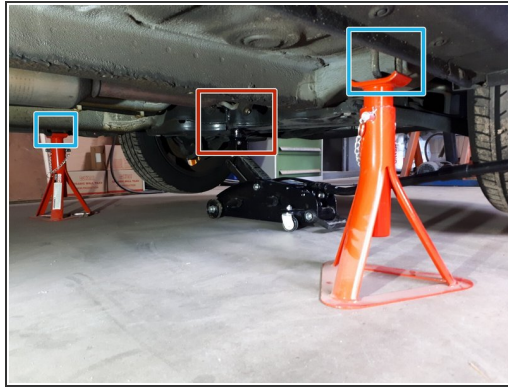
- [Hydraulic Floor Jack](#) (1)
- [Jack Stands](#) (1)
- [Torque Wrench](#) (1)
- [1/2" Drive Ratchet](#) (1)
- [12mm Socket](#) (1)
- [17mm Socket](#) (1)
- [6mm Allen Socket](#) (1)
- [14mm Wrench](#) (1)
- [17mm Wrench](#) (1)
- [19mm Wrench](#) (1)
- [5 mm Hex Key](#) (1)
- [Small Chain Nose Pliers](#) (1)
- [Pin Punch](#) (1)
- [Hammer](#) (1)
- [Coil Spring Compressor](#) (2)
- [Vise](#) (1)
- [Threadlocker](#) (1)



PARTS:

- [Coil Spring](#) (2)
front axle

Step 1 — jack up your car



⚠ CAUTION: THIS PROCESS IS POTENTIALLY DANGEROUS. Be aware of your surroundings and do not go underneath your vehicle until this step is completed.

⚠ Make sure the handbrake is on, and the gear is in **reverse** for manual or **park** for an automatic transmission car.

⚠ Follow the safety instructions of the jack stand and jack.

i Refer to [this guide](#) for more detailed information on how to jack up a car.

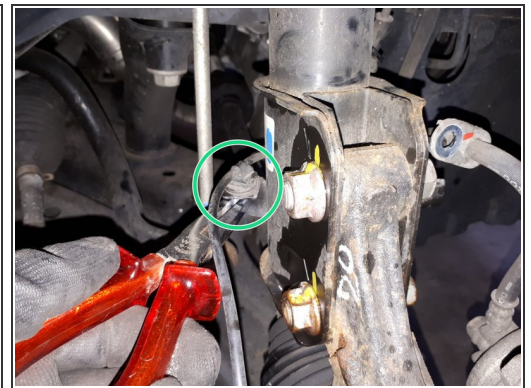
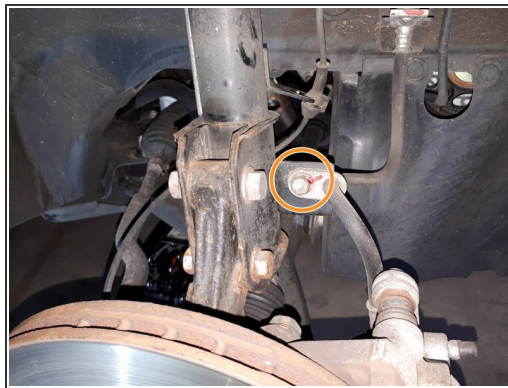
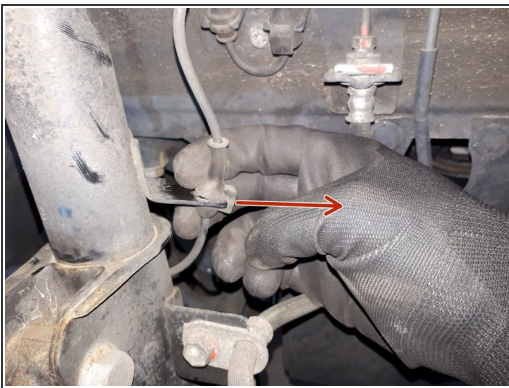
- Put the jack under the rear frame hook and jack up the back of the car until the jack stands can be put under the jack supports.
- Put jack stands under the rear jack supports. Slowly lower the weight of the car onto them by lowering the jack.
- Put the jack under the front sub frame and jack up the front of the car until the jack stands can be put under the jack supports.
- Put jack stands under the front jack supports. Slowly lower the weight of the car onto them by lowering the jack.

Step 2 — remove the tire



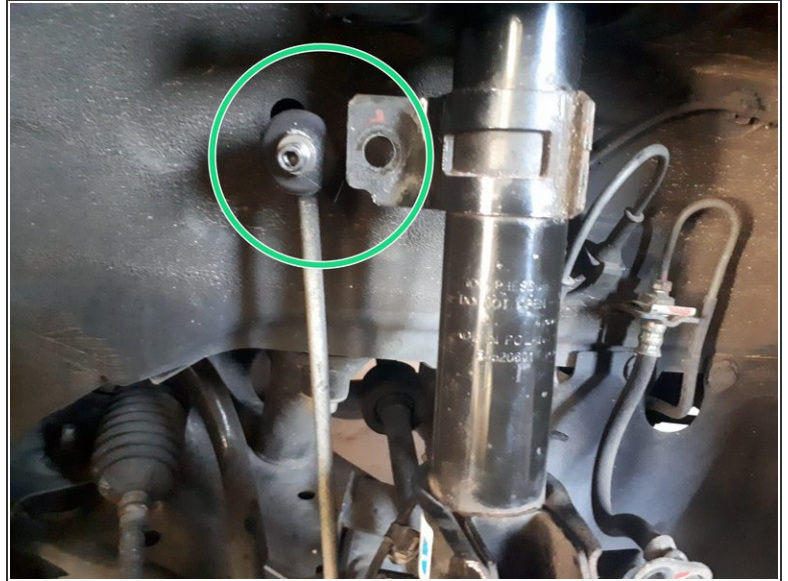
- Using the 17mm socket, unbolt the wheel nuts and remove the tire from the hub.

Step 3 — detach cables



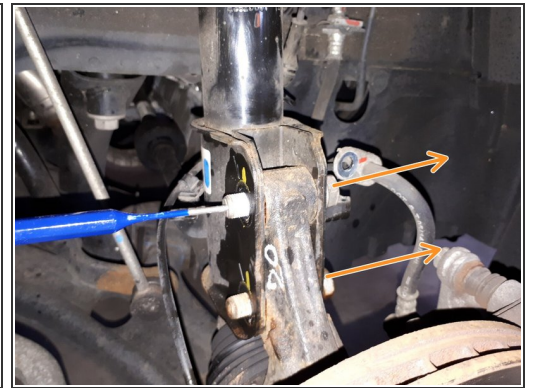
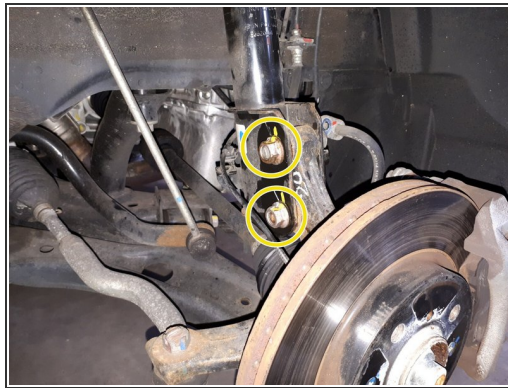
- Pull the top sensor attachment from the mount.
- Use the 12mm to disconnect the brake cable bracket.
- Unclip the lower sensor attachment from the mount. Use the pliers to compress the locking part and pull out the clip.

Step 4 — disconnect stabilizer bar link



- Use the 5mm hex to hold the bolt in place, while loosening the nut with the 14mm wrench.
- Pull out the stabilizer bar link from the strut assembly mount.

Step 5 — disconnect bottom strut assembly



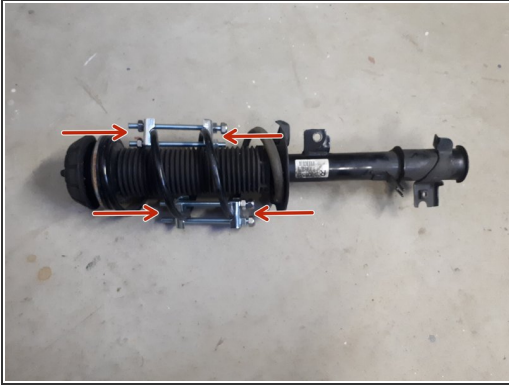
- Put the jack under the wheel arm and let the jack bear the weight of the arm but not lift the arm.
- Using the 17mm socket, unscrew the nuts from the strut bracket bolts.
- Use the punch and hammer to punch out the bolts.

Step 6 — remove strut assembly



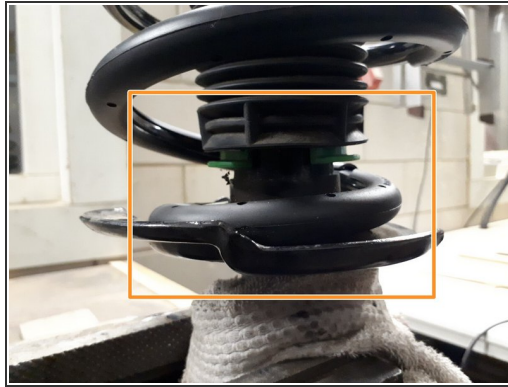
- Lower the jack and pull the wheel arm from the bottom strut assembly.
- Open the hood and remove the plastic cap protecting the upper strut mount.
- Use the 6mm hex to hold the bolt in place, while loosening the nut with the 17mm wrench. When freeing the nut, hold the strut assembly to prevent it from falling.
- Remove the strut assembly from the wheel-well while ensuring the cables are not damaged.

Step 7 — remove top from strut assembly



- Use the coil spring compressors to release the tension on the strut assembly head.
- Use the vise to hold the bottom part of the assembly. Wrap it with some cloth to prevent damage from the grips.
- Use the 6mm hex to hold the bolt in place, while loosening the nut with the 19mm wrench.
- Release the strut assembly from the vise and take off all parts from the top and arrange them by order.

Step 8 — replace spring



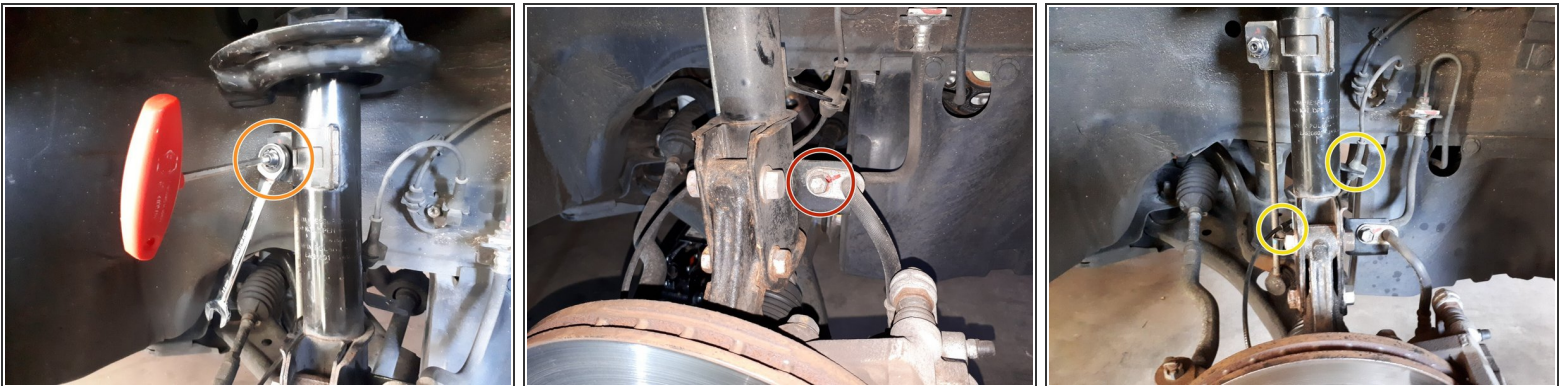
- You can now take the spring off the strut assembly, together with the dust sleeve.
- ⓘ Depending on the height of the replacement spring, you might need to compress it with the coil spring compressors before installation.
- Put the strut assembly back into the vise.
- Install the replacement spring together with the dust sleeve. Make sure the bottom of the spring fits in the mount indentation. Don't try to attach the bottom part of the sleeve at this point.
- Put back the top parts in reverse order and use the 6mm hex and 19mm wrench to tighten the bolt to 50 N·m.
- Wrap the dust sleeve bottom around the mounts.

Step 9 — insert strut assembly



- Carefully put the strut back and while holding the bottom part, screw back the bolt.
- Using the 6mm hex and 17mm wrench, tighten to 50 N·m and enclose with the plastic cover.
- Push against the wheel hub to align the wheel arm with the strut bracket and insert the strut bracket bolts.
- Apply thread locker and screw the bolts back on, tighten to 90 N·m.

Step 10 — attach the rest



- Connect the stabilizer bar link. Tighten to 50 N·m.
- Bolt the brake cable bracket back on to the strut assembly. Tighten to 25 N·m.
- Attach the sensor cable to the mounts on the strut assembly.

Step 11 — attach tire



- Place the tire flat against the wheel hub and make sure the hub holes line up with the rim holes.
- With the 17mm socket, screw the wheelnuts back in. Tighten to 85 N·m.

To replace the other front spring, repeat the process on the other side of the car. When you're finished, lower the car with the jack.