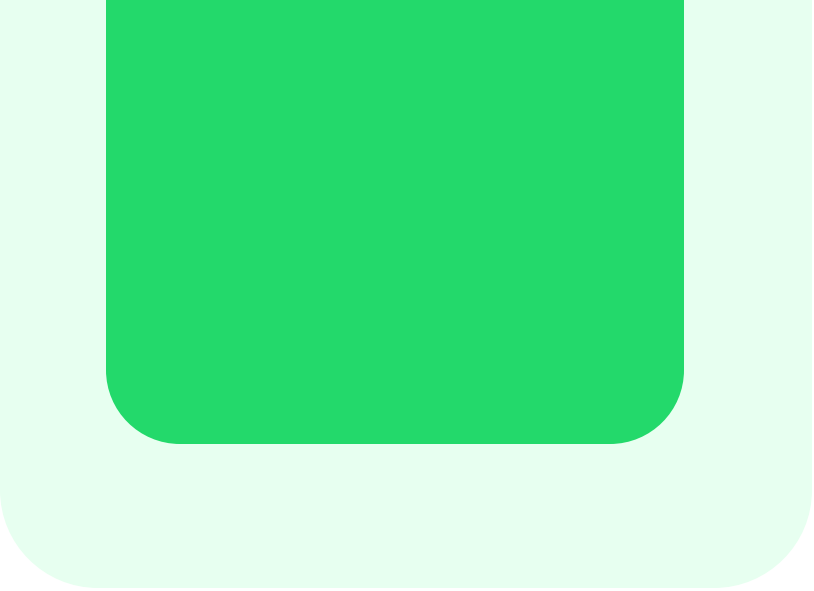
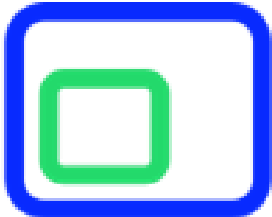
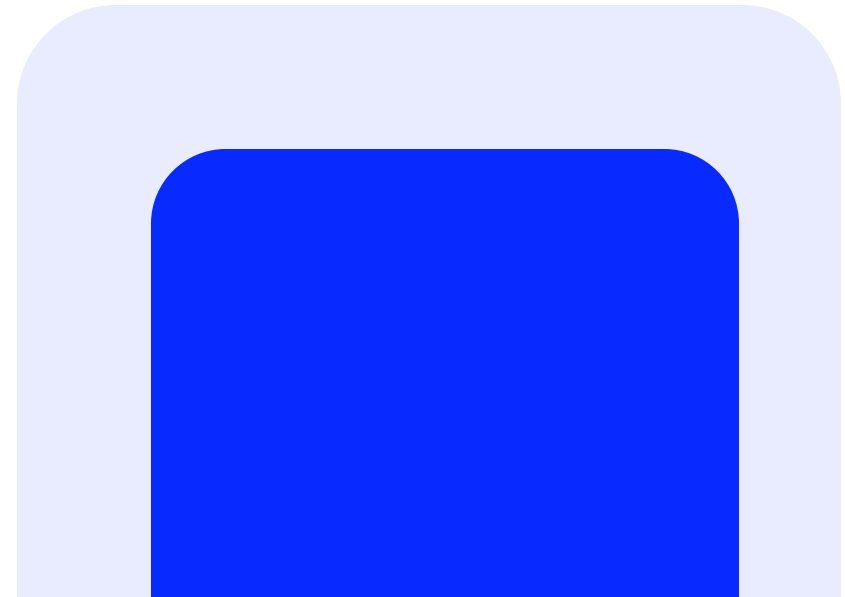
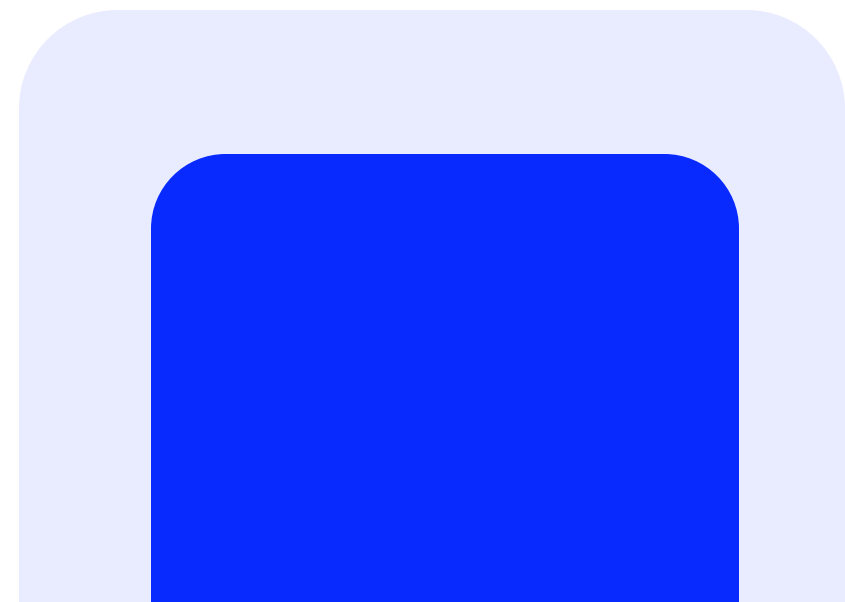
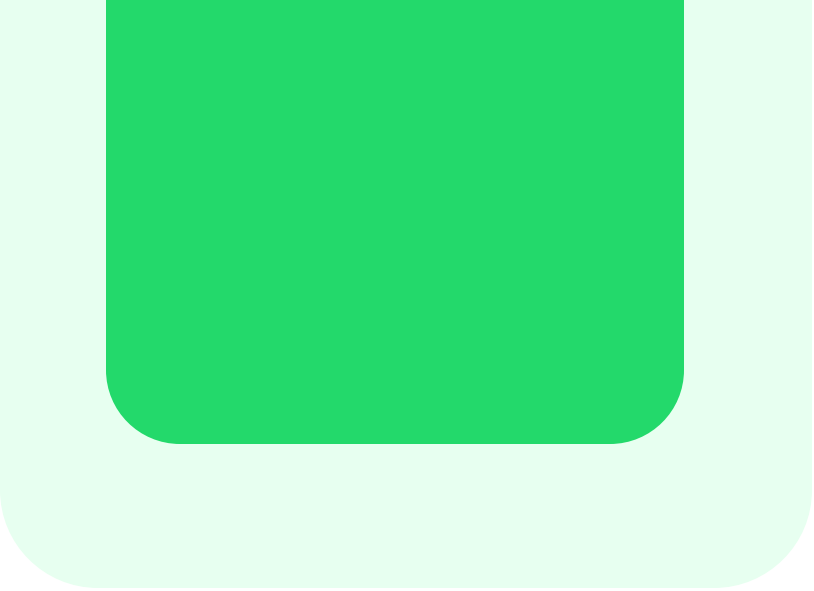




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TOOLS

- 13mm, 14mm, 17mm and 19mm Open end wrenches
- Hydraulic Jack
- Jack stand
- Impact drill
- 19mm and 13mm Hexagonal socket
- Medium wrench
- Shaft extractor

-Straight pliers

SAFETY EQUIPMENT

- Steel toe-cap shoes
- Safety gloves

1. LIFT THE VEHICLE

Use the
hydraulic jack
to raise the
front of the
vehicle until
the front
wheels are
suspended.



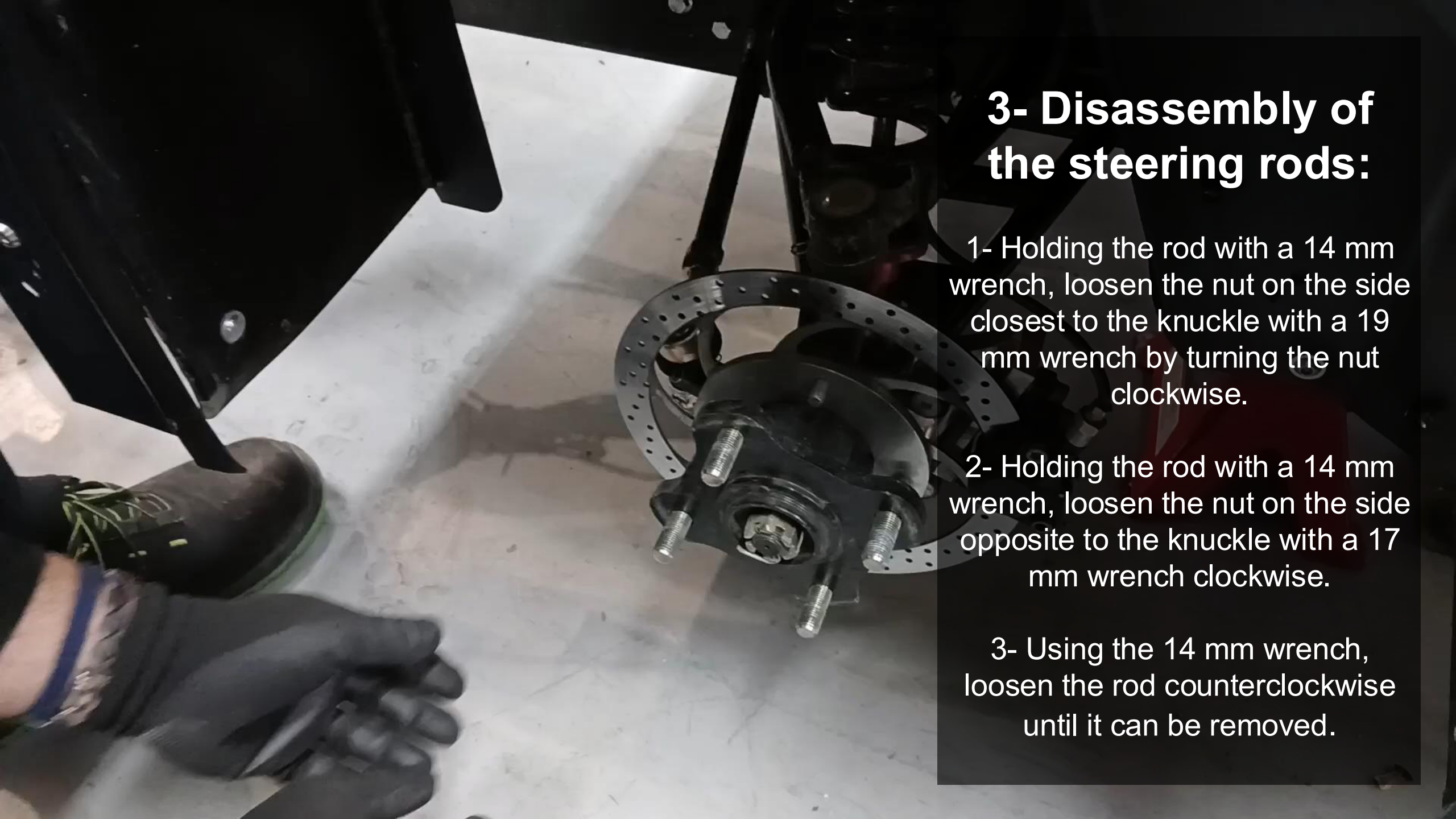


2. WHEEL REMOVAL

2.1 Attach a 19 mm socket to the impact driver.

2.2 Remove the four cap nuts securing the wheel to release it.

2.3 Once loosened, pull the wheel outward to remove it from the vehicle.

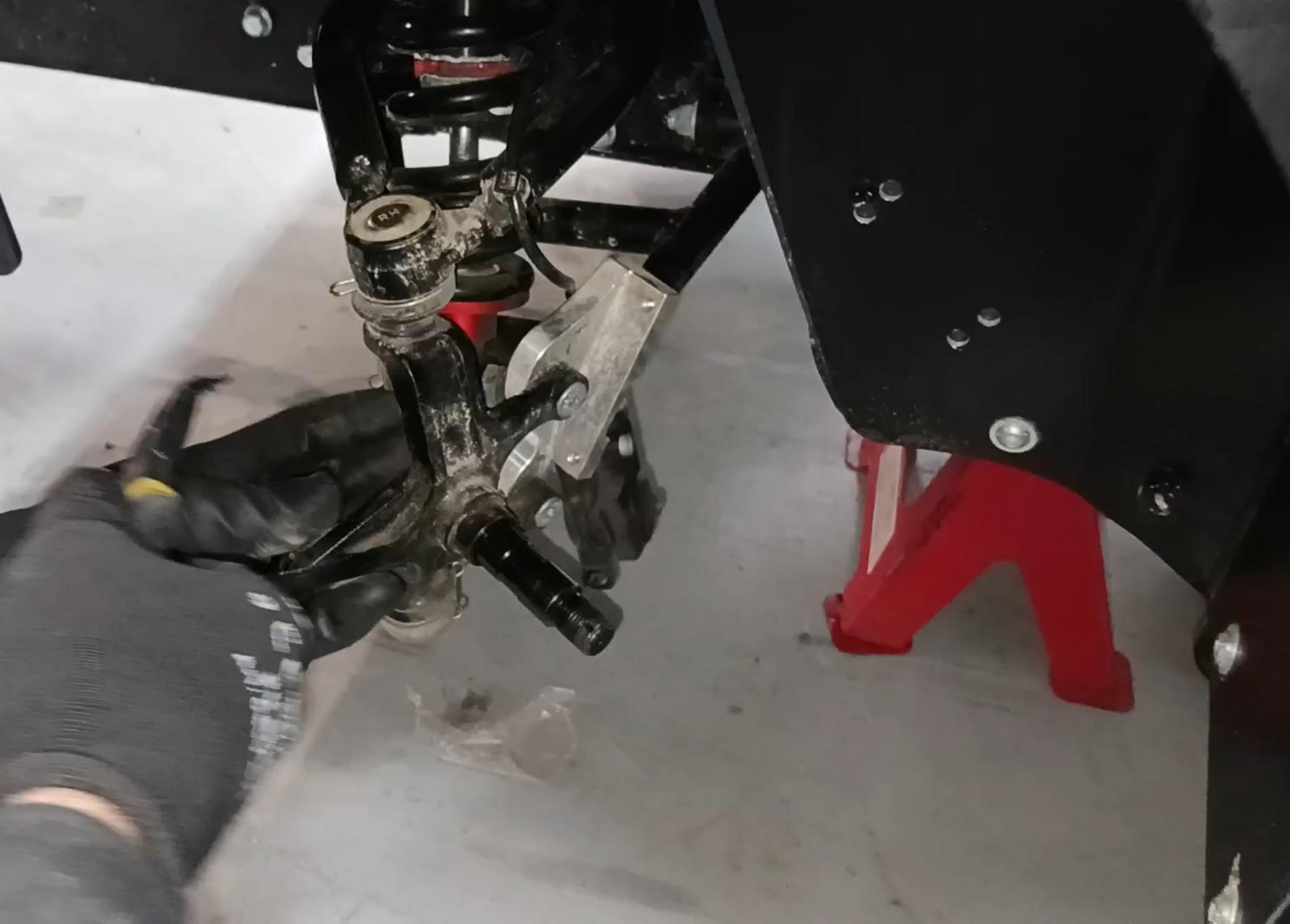


3- Disassembly of the steering rods:

1- Holding the rod with a 14 mm wrench, loosen the nut on the side closest to the knuckle with a 19 mm wrench by turning the nut clockwise.

2- Holding the rod with a 14 mm wrench, loosen the nut on the side opposite to the knuckle with a 17 mm wrench clockwise.

3- Using the 14 mm wrench, loosen the rod counterclockwise until it can be removed.



4- Disassembly of the spindle:

1- Using needle-nose pliers, straighten the pin of the crown nut. Use a 19mm wrench to remove the crown nut.

2- Place the axle extractor and remove the upper spindle axle.

5- Front shock absorber removal.

1- Using the 19mm open-end wrench, the medium socket, and the 19mm socket wrench, remove the lower shock absorber bolt.

2- If the shock absorber is stuck between the two plates of the lower control arm, use the 19mm wrench as a lever to remove it.

3- Using the 13mm and 14mm open-end wrenches, remove the upper shock absorber bolt and take out the shock absorber.

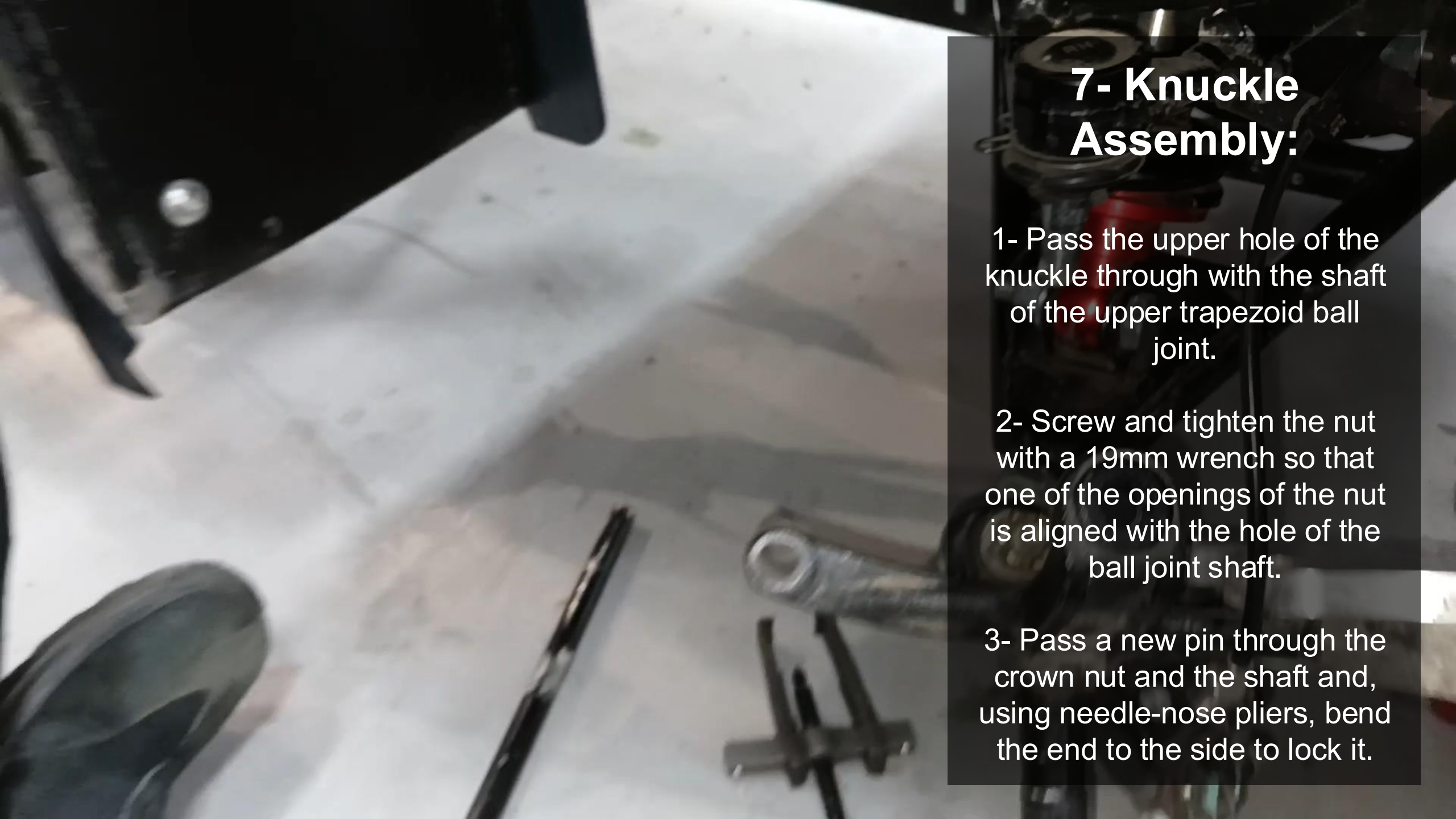


6- Installation of the front shock absorber.

1- Align the new shock absorber with the upper mounting plates.

2- Insert the top bolt and tighten the nut with a 13/4 mm wrench while holding the bolt with a 14 mm wrench.





7- Knuckle Assembly:

- 1- Pass the upper hole of the knuckle through with the shaft of the upper trapezoid ball joint.
- 2- Screw and tighten the nut with a 19mm wrench so that one of the openings of the nut is aligned with the hole of the ball joint shaft.
- 3- Pass a new pin through the crown nut and the shaft and, using needle-nose pliers, bend the end to the side to lock it.

8- Steering Rod Assembly:

1- Turn the nut of the outer and inner elbow clockwise to the maximum, turn the actuator towards the side where the steering rod is being installed.

2- The wider side of the central rod (this end has a welded hex nut) is the side pointing outward of the vehicle. Once in position, align the two bolts with the rod threads so that it screws in the same distance on each side; to screw, turn the rod clockwise. If one side screws in before the other, unscrew the rod and try again. Screw the rod until it is approximately halfway along the threads.

3- Center the actuator and adjust the rod. If the brake disc appears to point inward toward the vehicle, turn the rod clockwise; if the brake disc appears to point outward, turn the rod clockwise. When the brake disc appears straight, tighten the nuts on the outer elbow counterclockwise with a 19mm wrench and on the inner elbow with a 17mm open-end wrench while holding the central rod with a 14mm wrench.





9-Wheel installation and lowering the vehicle:

1- Align the four hub bolts with the holes on the rim and screw on the four nuts.

Using the impact drill and a 19mm socket, tighten the nuts in a crisscross pattern (top, bottom, left, right).

2- Lift the vehicle with the hydraulic jack and remove the jack stand. Release the pressure from the hydraulic jack to lower the vehicle.

