

Z1 OFFROAD STEERING WHEEL HUB ADAPTOR INSTALLATION MANUAL



PROLOGUE:

Study these instructions completely before proceeding to assembly. The installer must have a thorough knowledge of automotive systems operation. If unfamiliar with any of the concepts outlined in this instruction, we recommend the installation be completed by a qualified professional.

WARNING!

Extreme caution should be taken when performing maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding installation or the various components included with the Z1 Off-Road Steering Wheel Hub Adaptor, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	1	Steering Wheel Hub Adaptor
2	1	Steering Wheel Hub Cover
3	3	M3 x 0.5 Screw, 6mm
4	2	Airbag Resistor

TOOLS REQUIRED:

- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets
- Assorted Metric Wrenches
- Torque Wrench
- Impact Gun (Recommended)
- Steering Wheel Puller (Recommended)
- Flat Head Screwdriver
- Electrical Tape

SAFETY REQUIREMENTS:

- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Always turn the ignition to the OFF position and disconnect the NEGATIVE battery terminal.
- Only operate drivetrain in safe space and well-ventilated areas.

BEFORE YOU BEGIN:

Remove contents from the Z1 Off-Road Steering Wheel Hub Adaptor and verify that ALL necessary hardware is present.

PROCEDURE:

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Turn the Steering Wheel until the front wheels are straight.
3. Open and support the hood of the vehicle.
4. Disconnect the **NEGATIVE (-)** battery terminal.
5. Allow the car to sit for half an hour, this will allow all the power to drain out to prevent the airbag from potentially going off.
6. The Airbag will need to be removed. Depending on your vehicle, the process will be different. See below for your vehicle.
 - [Xterra](#)
 - [D40 Frontier](#)
 - [Steering Wheel Hub Installation](#)

XTERRA:

- a. Locate the Retaining Clip Access Hole on the backside of the Steering Wheel. *Figure 1.*

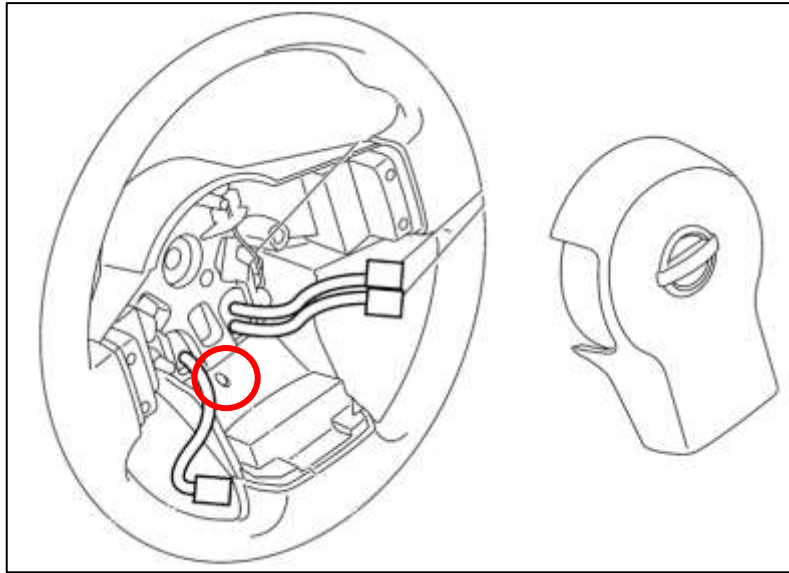


Figure 1

- b. Insert a small Screwdriver or similar tool and press upwards on the retaining clip until the Airbag is released from the Steering Wheel. *Figure 2.*

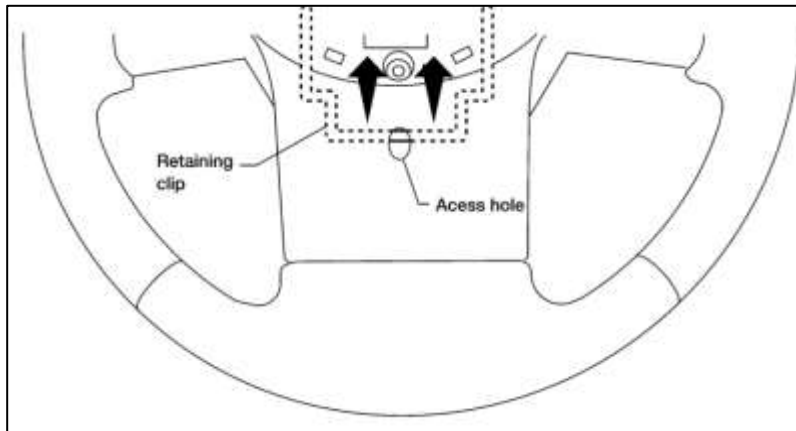


Figure 2

- c. Disconnect the (2) two Airbag Connectors from the Airbag, and remove the Airbag from the vehicle.

NOTE: The connectors have a small clip that must be pushed upwards to remove. *Figure 3.*

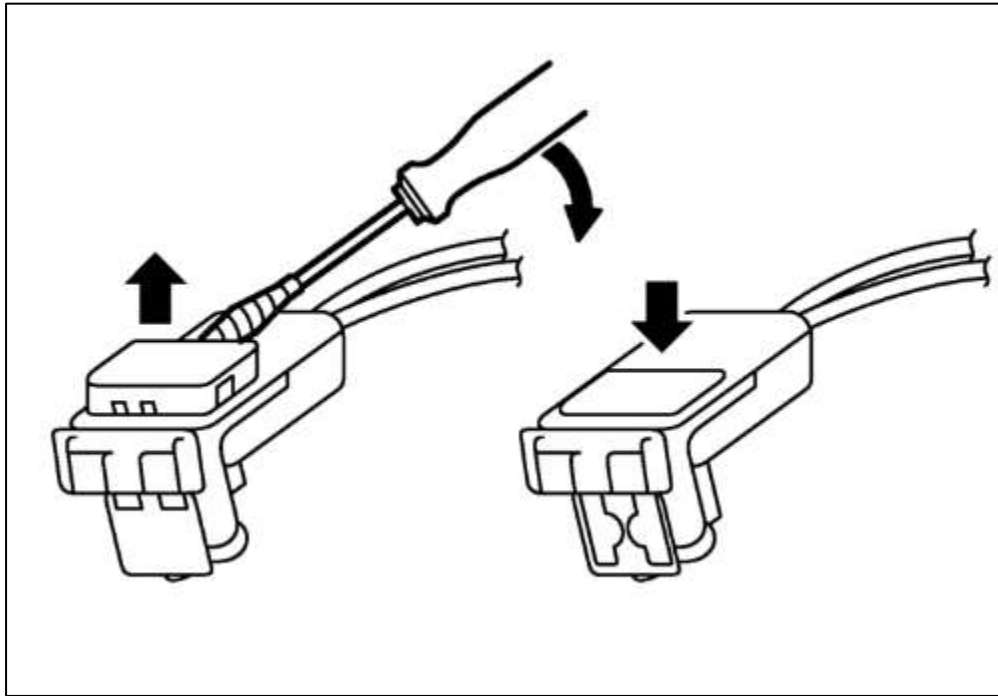


Figure 3

- d. Disconnect the Horn Connector and the Gray Connector for the Button Controls on the Steering Wheel. *Figure 4.*

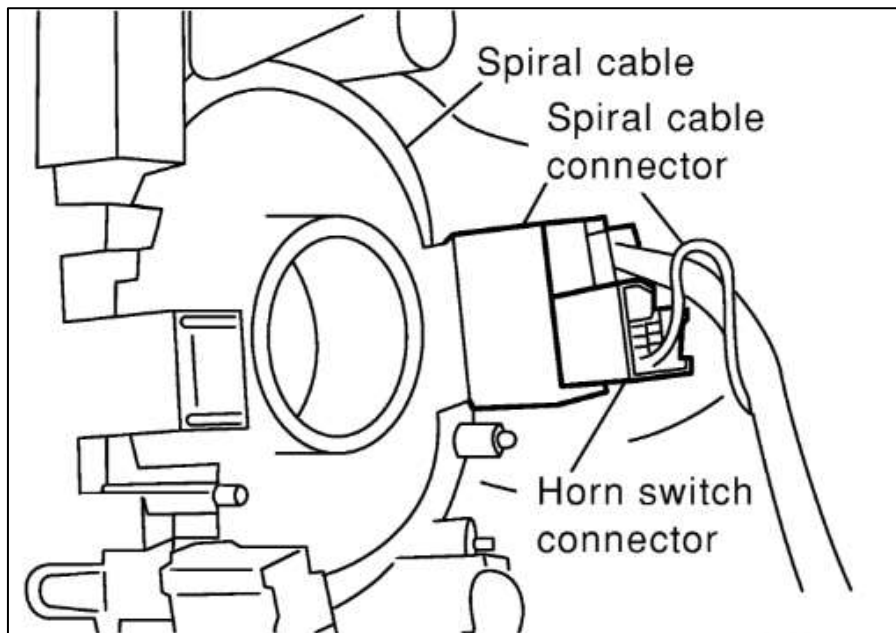


Figure 4

- e. Using an impact gun, remove the nut in the center of the Steering Wheel. *Figure 5.*

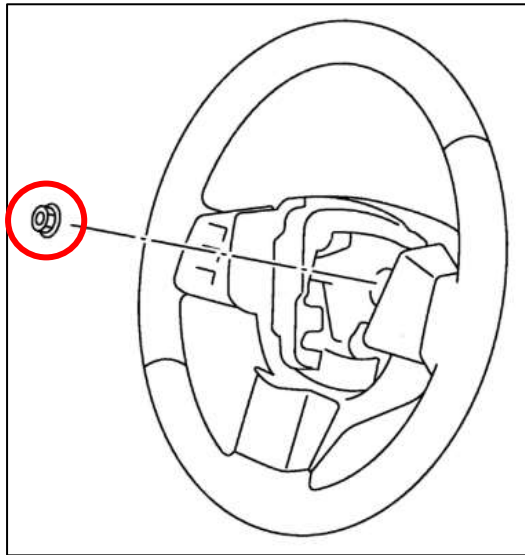


Figure 5

- f. Using a Steering Wheel Puller, remove the OE Steering Wheel. If you do not have a Steering Wheel Puller, grab the Steering Wheel at the top and bottom, and rock the wheel back and forth to loosen it. *Figure 6.*

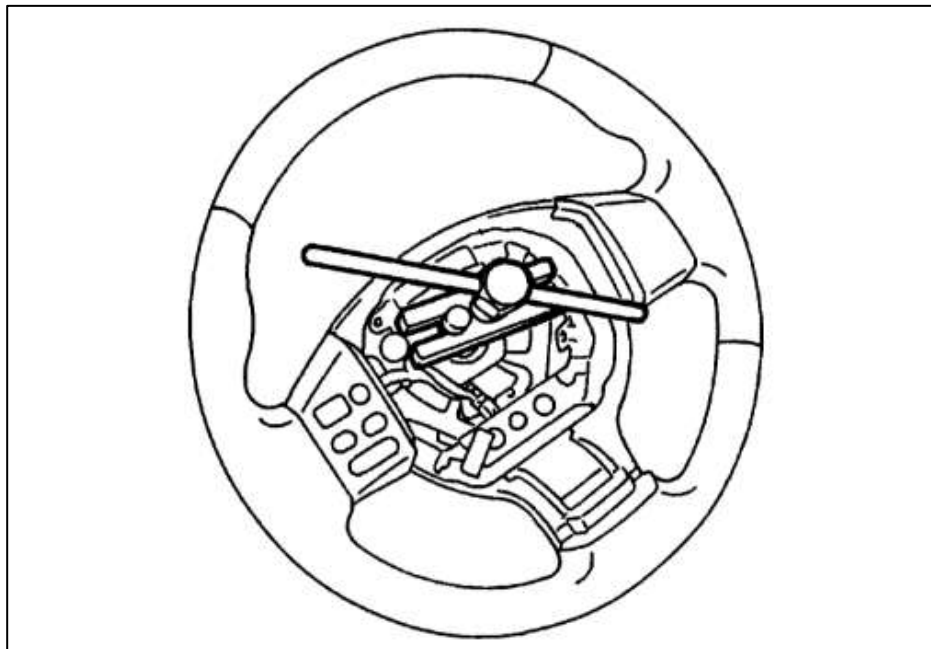


Figure 6

[Steering Wheel Hub Installation](#)

D40 FRONTIER (2005-2022):

- a. Locate the Retaining Clip Access Hole on the backside of the Steering Wheel. *Figure 7.*

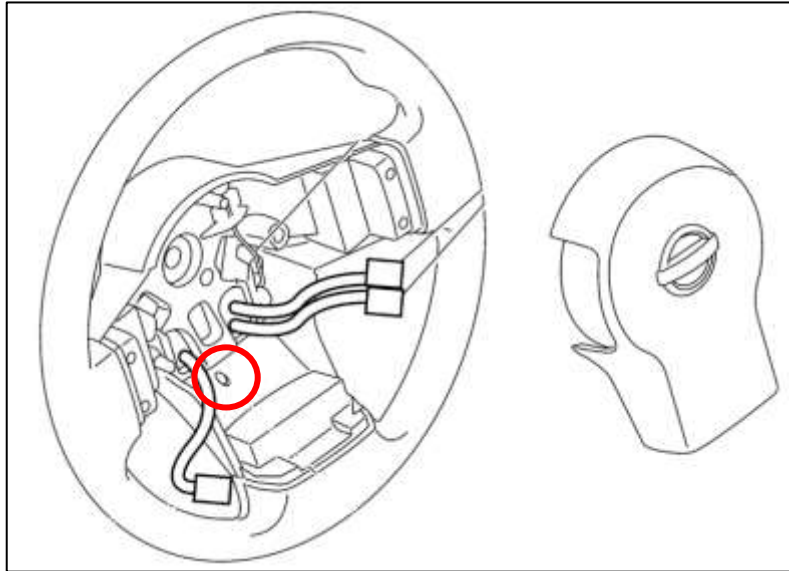


Figure 7

- b. Insert a small Screwdriver or similar tool and press upwards on the retaining clip until the Airbag is released from the Steering Wheel. *Figure 8.*

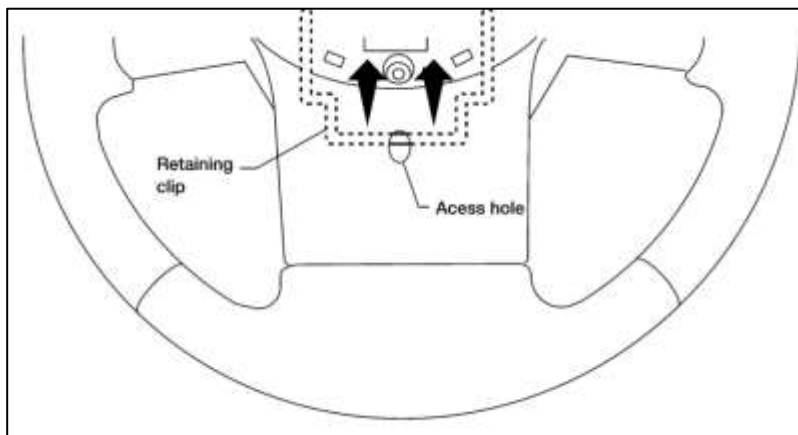


Figure 8

- c. Disconnect the (2) two Airbag Connectors from the Airbag, and remove the Airbag from the vehicle.

NOTE: The connectors have a small clip that must be pushed upwards to remove. *Figure 9.*

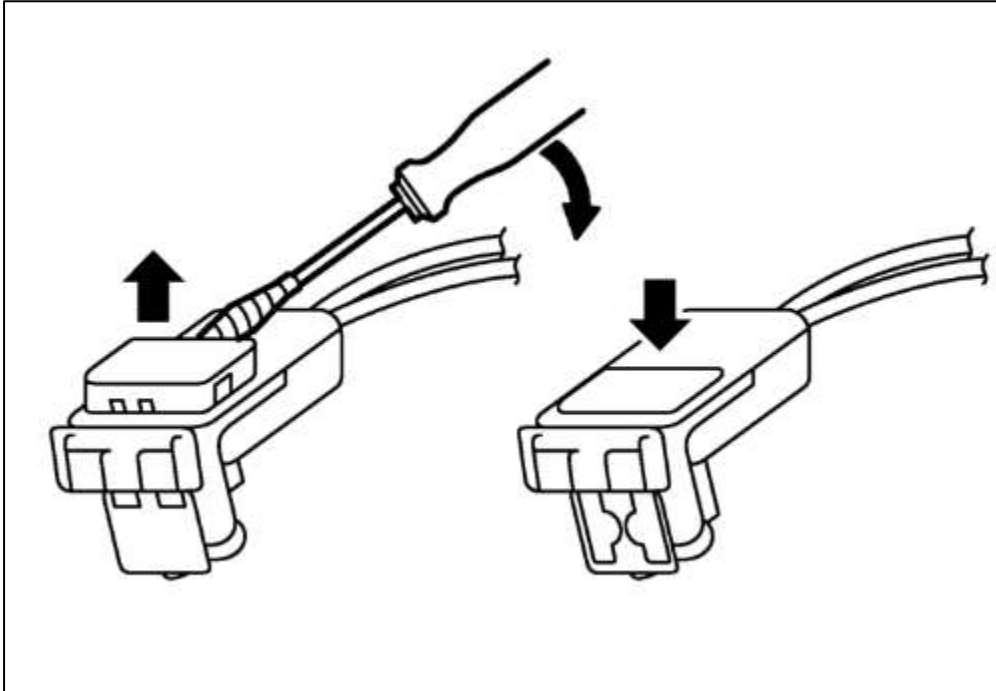


Figure 9

- d. Disconnect the Horn Connector and the Gray Connector for the Button Controls on the Steering Wheel. *Figure 10.*

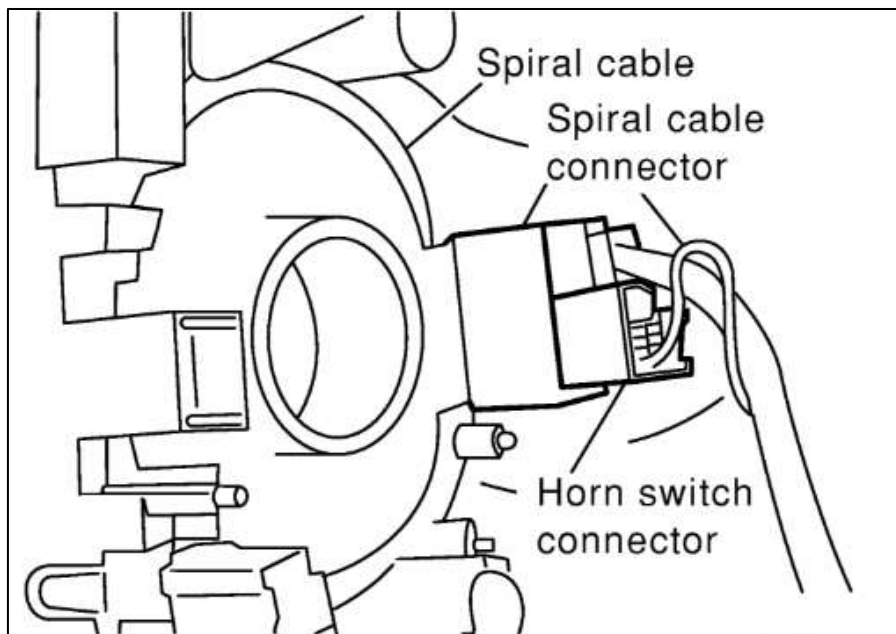


Figure 10

- e. Using an impact gun, remove the nut in the center of the Steering Wheel. *Figure 11.*

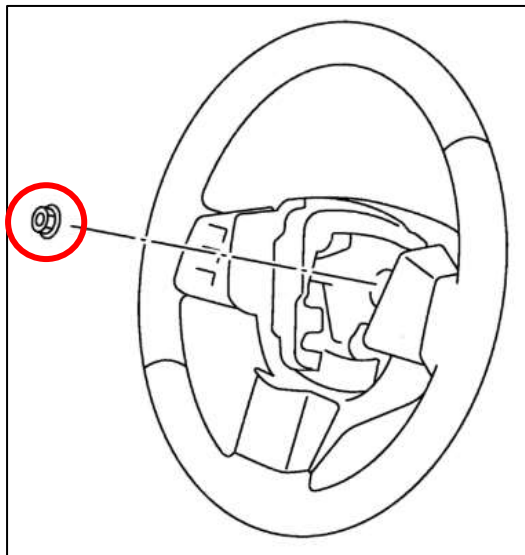


Figure 11

- f. Using a Steering Wheel Puller, remove the OE Steering Wheel. If you do not have a Steering Wheel Puller, grasp the Steering Wheel at the top and bottom, and rock the wheel back and forth to loosen it. *Figure 12.*

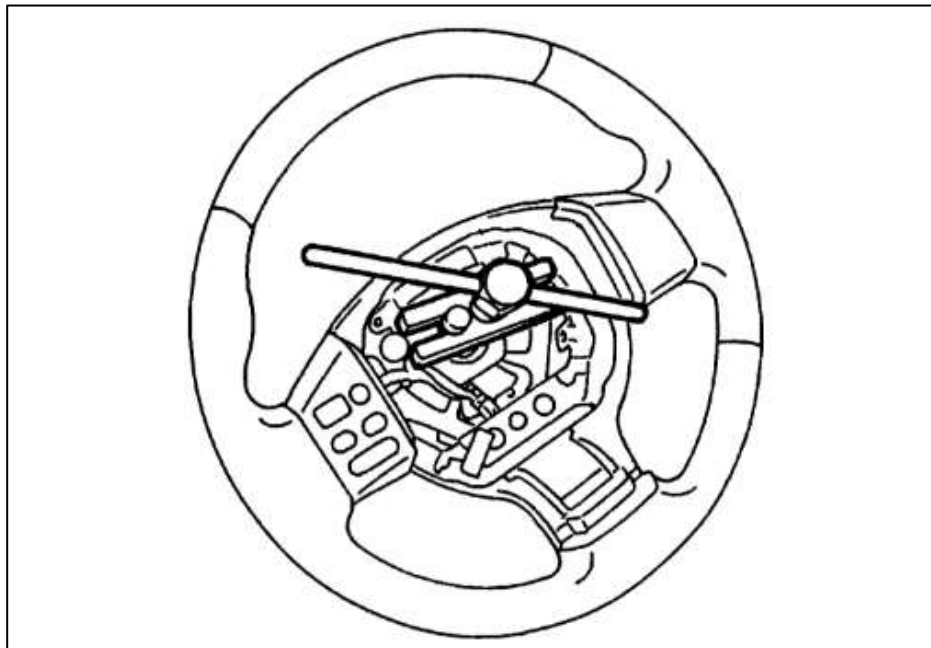


Figure 12

[Steering Wheel Hub Installation](#)

HUB ADAPTOR INSTALL:

1. Locate the Steering Wheel Hub Adaptor. Place the Z1 Steering Wheel Hub Adaptor on the Steering Shaft. Feed the Horn Wire, Button Control Wire, and the Airbag wires through the openings. Line up the Dash on the Steering Hub Adaptor with the Dash on the Steering Shaft Splines. *Figure 13.*

NOTE: The following Steps show the Wheel Hub Adaptor being installed onto a Nissan 350Z. The Installation Process is the same.

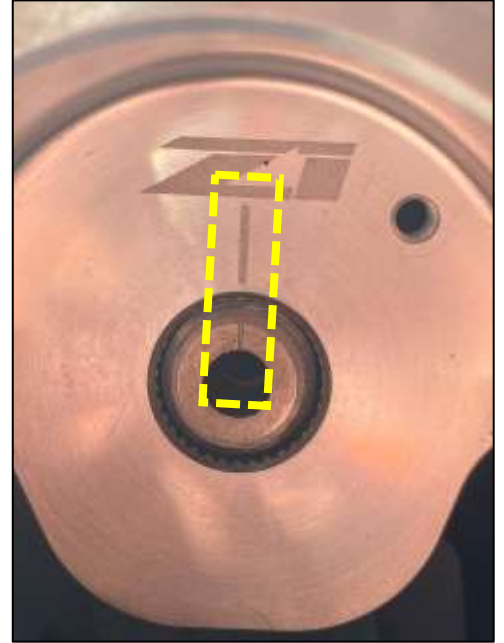


Figure 13

2. Reinstall the OE Nut back onto the Steering Shaft. Torque to **25 ft-lbs.** *Figure 14.*



Figure 14

3. Locate the (2) two Airbag Resistors. Plug (1) one into each Airbag Connector disconnected from the OE Steering Wheel. These will prevent the car from throwing an Airbag Code. Wrap the Connectors and Resistors with electrical tape to prevent them from coming apart. Tuck them into the Steering Wheel after taping. *Figure 15.*

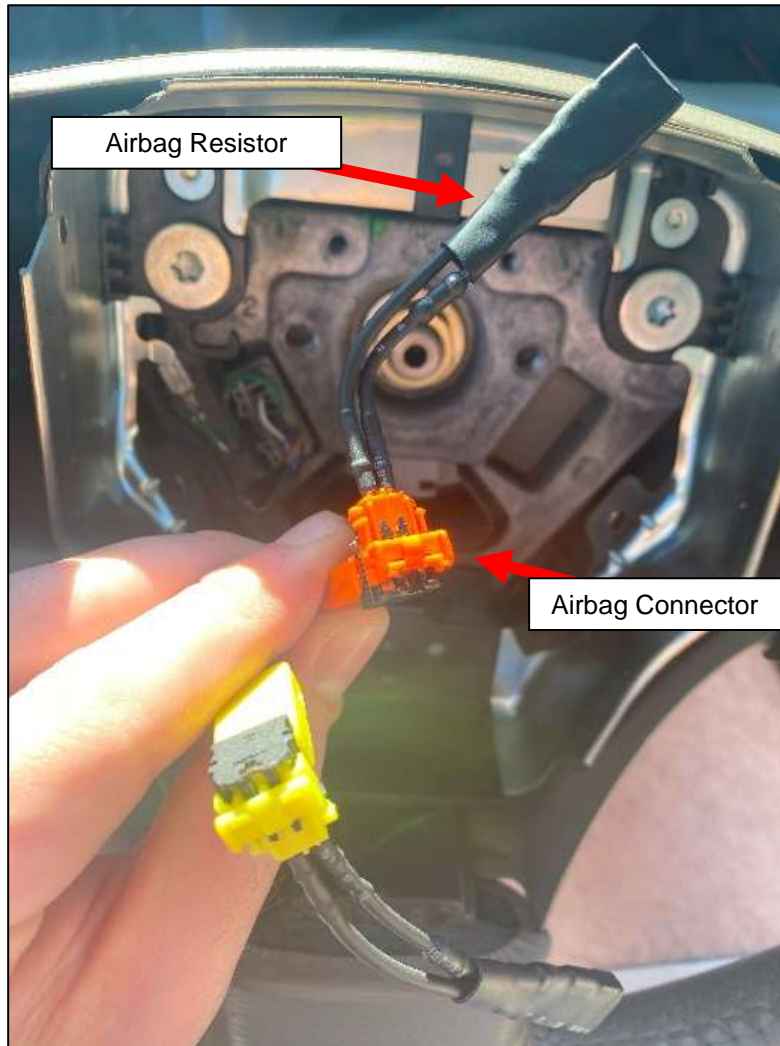


Figure 15

4. Your Z1 Steering Wheel Hub is now installed, if you are using any of the below products, follow the instructions included with them below:
 - [Z1 Steering Wheel Quick Release](#)
 - [Z1 Steering Wheel Spacer](#)

END

Additional Technical Support:
Contact Z1 Motorsports at info@z1motorsports.com
Or call 770-838-7777 between 9am and 6pm ET