



Rev1

OLM Carbon Pro/Alcantara Pro Steering Wheel

Part #: OLMA.70223.1 & 70223.2

Application: 2020+ Toyota Supra

Questions? Email us at: [sales@ftspped.com](mailto:sales@ftspped.com)

### Required Tools

Small flathead screwdriver

3/8" ratchet w/ extension

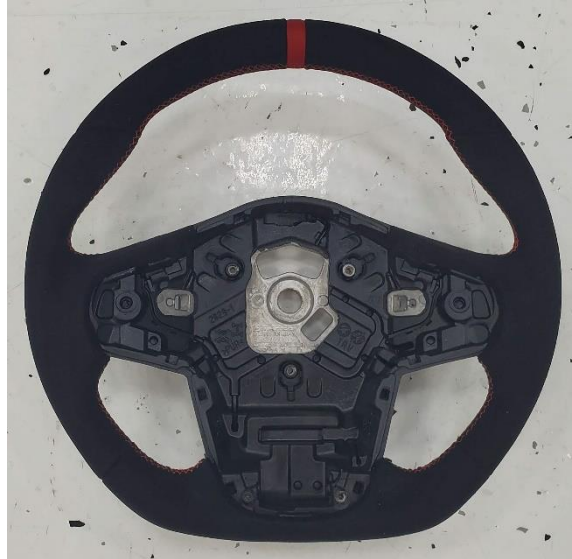
10 mm socket

T20 torx bit

½" torque wrench w/ extension

16 mm socket

Thread locker

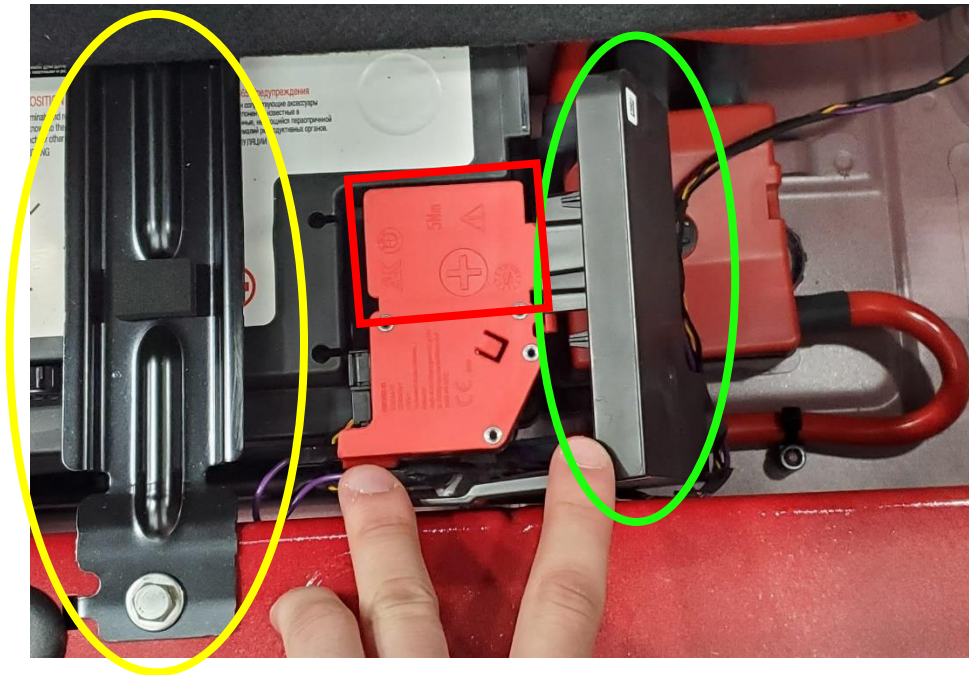


### Installation Instructions

- 1 – Start by navigating your car on a level surface and straightening the steering wheel until it is centered.
- 2 – Place your vehicle in park, turn it off, and open the rear hatch.
- 3 – Grab around the floor cover and move it back towards the center of the car, exposing the battery.

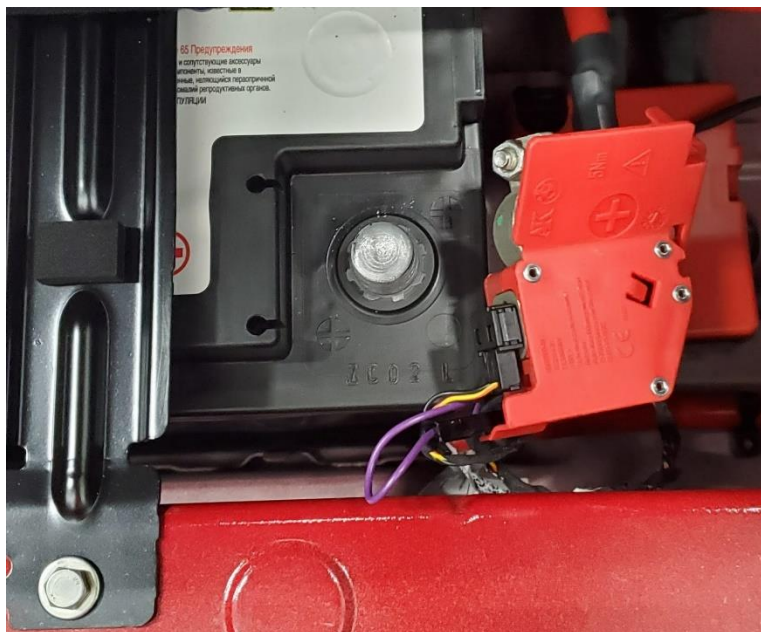


4 – Next, circled below is a black plastic cover over the positive battery terminal. Simply flip it to the right as shown and then wiggle to remove, set aside for later.



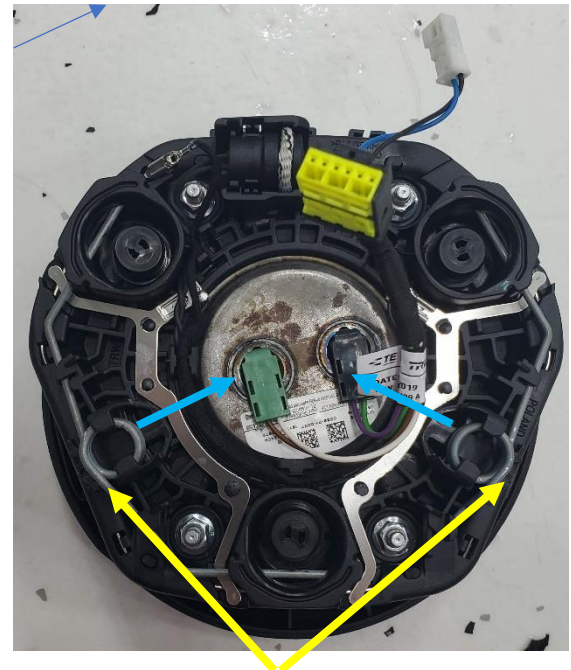
Note: Cover the metal bracket circled in yellow with a clean rag or microfiber towel before attempting step 5 to mitigate any chance of grounding out the battery with your ratchet.

5 – Flip up the tab boxed above in red with the (+) symbol on it. Using your 3/8" ratchet, long extension, and 10 mm socket, disconnect the positive battery connector and place away from the battery terminal as shown below.



6 – With the battery disconnected, enter your vehicle and depress the brake pedal for 10 seconds to ensure any residual power in the electrical system is depleted.

7 – Located on either side of the steering wheel, a few inches down the rear portion, roughly at 5 o'clock and 7 o'clock will be a small slot. These are access holes to remove the airbag. Take a small flat head screwdriver, press through these holes and in towards the center of the wheel. There are 2 springs that hold the airbag in place. Displayed below is a picture of the removed airbag for reference.



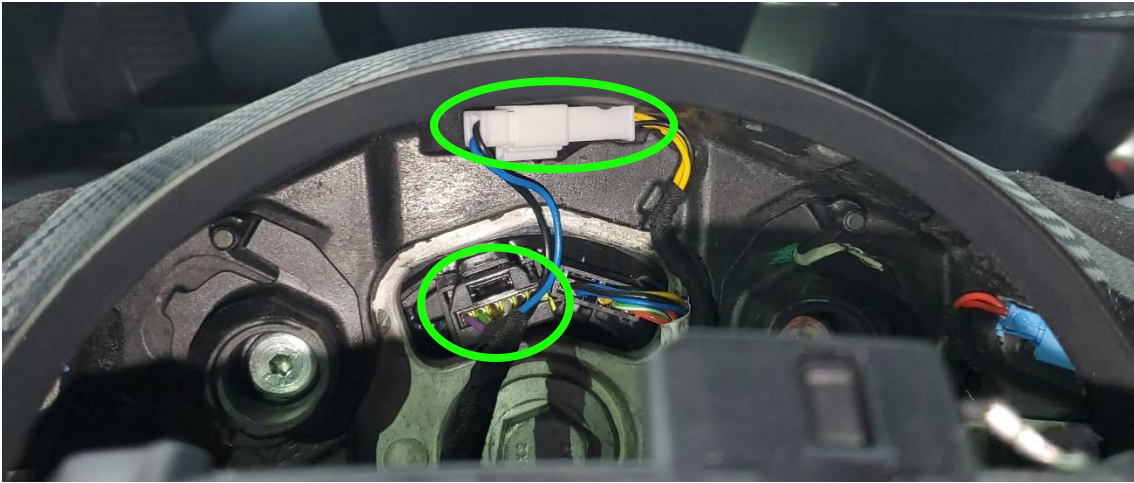
The 2 airbag retainer springs must be pressed in the direction of the blue arrows to release from the steering wheel

8 – Once the airbag springs have been depressed and the airbag has been released, it will still be held in by 2 electrical connections. Rest the airbag forward on the wheel to gain access to these connections, as shown.

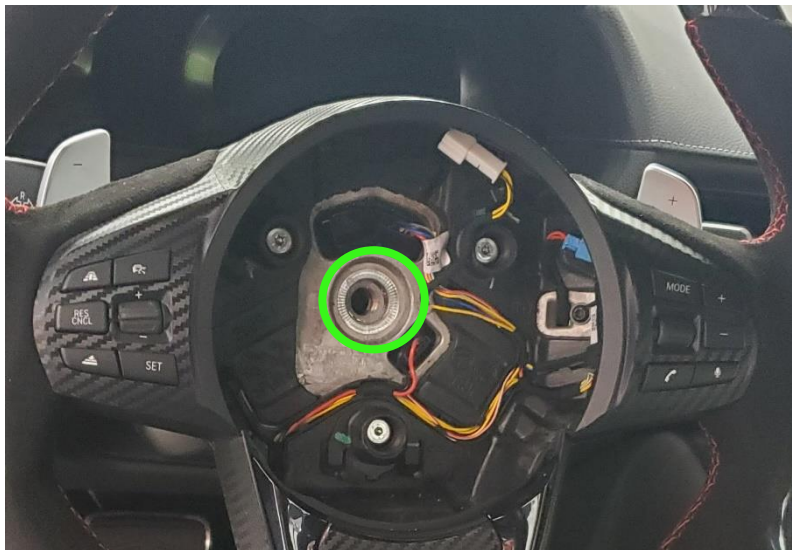




9 – Unplug the 2 connectors circled below. The white connector will simply disconnect with a pull. For the black connector, simply depress the clip on the top and pull straight back to release. The airbag is now free from the vehicle. Set this aside somewhere safe for reinstallation later.

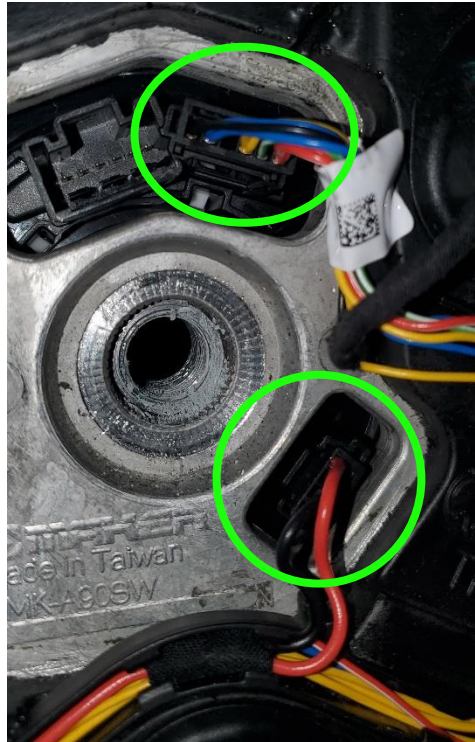


10 – Now using your ½" torque wrench, extension and 16mm socket remove the bolt securing the steering wheel to the car.

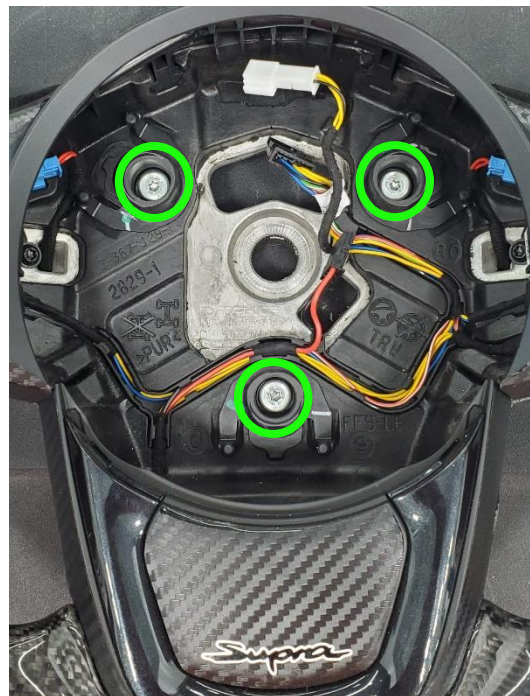


**Note:** It may be helpful to have someone else brace the steering wheel firmly while you attempt to remove this bolt

11 – Next, unplug the remaining 2 electrical connections to the clock spring, shown below. The steering wheel is now free to be removed from the vehicle.



12 – With the steering wheel removed, it's now time to transplant all of the wiring and bezels to your new OLM wheel! Start by removing the three T20 torx shoulder bolts shown below and set them aside.



13 – Again, using the T20 torx bit and ratchet, remove the screw that holds each paddle shifter assembly to the wheel. Once the paddles are loose, unplug each blue connector by simply pulling them apart. Feed the wire and connector out of the steering wheel and set the paddles aside.

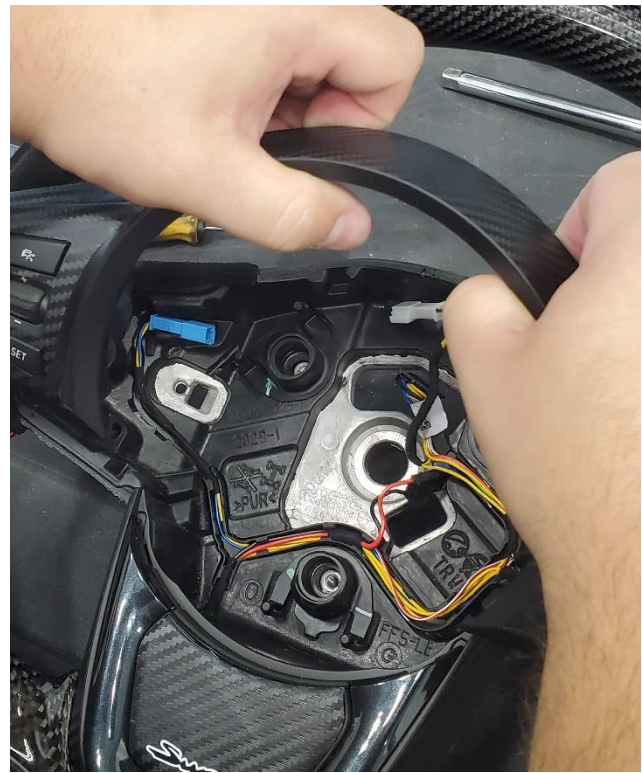
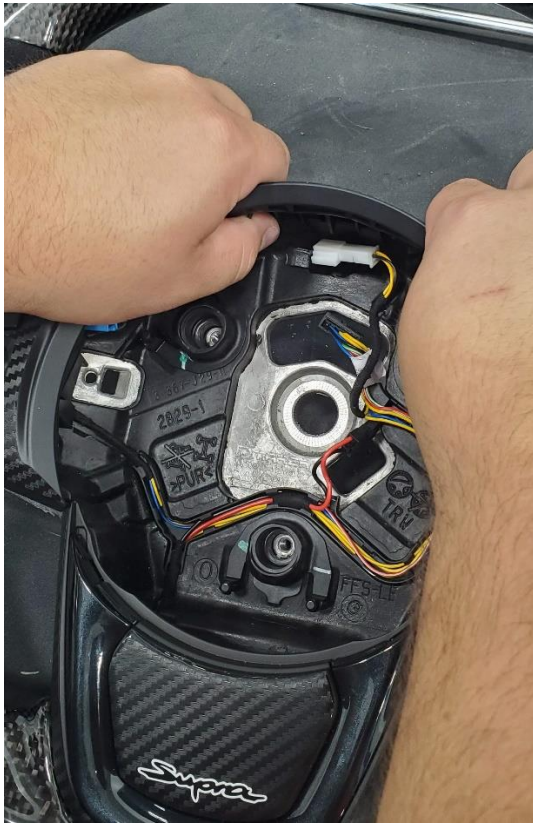


14 – With the paddles removed you can now access the 2 screws that hold the upper trim/button panel on. Flip the steering wheel over and remove them using your T20 bit.

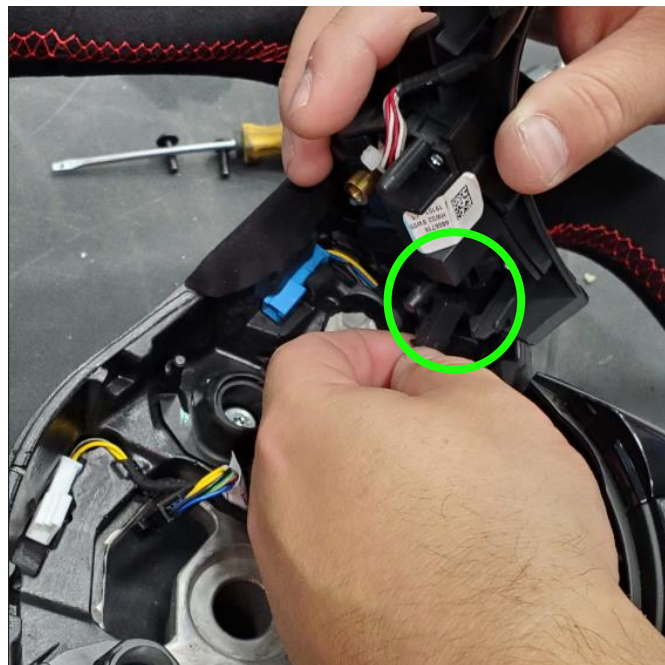




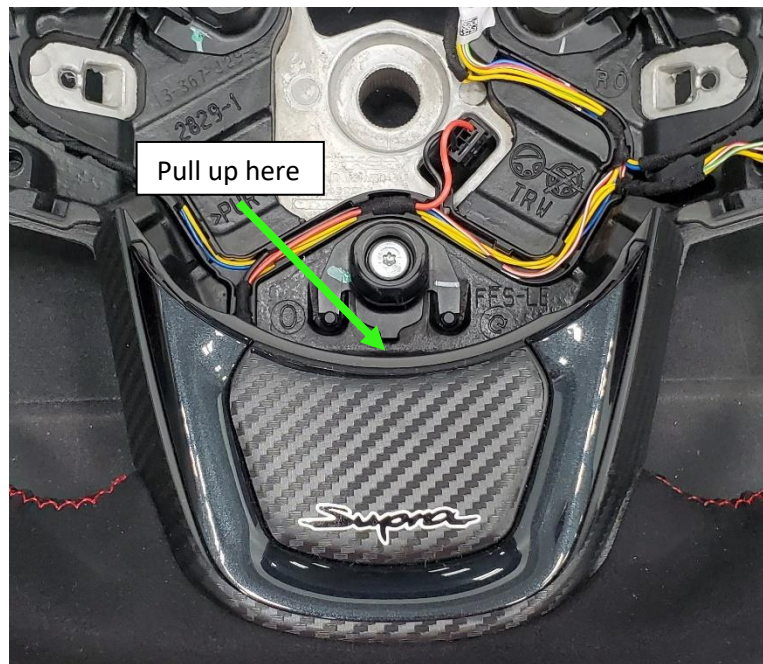
15 – Flip the steering wheel back over and pull up on the front of the paneling to release it from the body of the wheel. It will still be attached by a single electrical connection under the right-hand buttons.



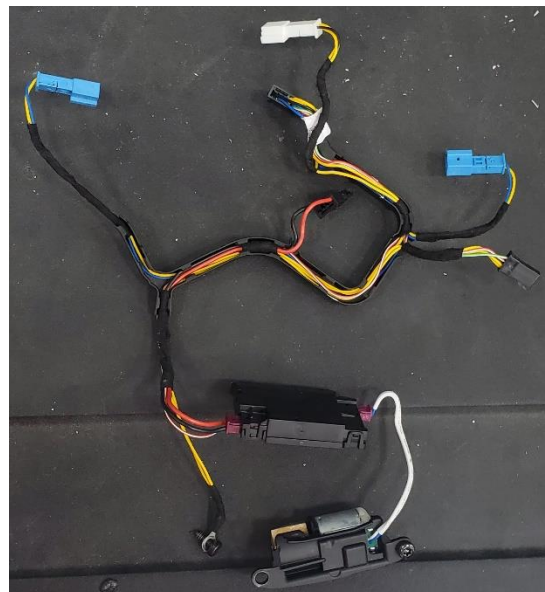
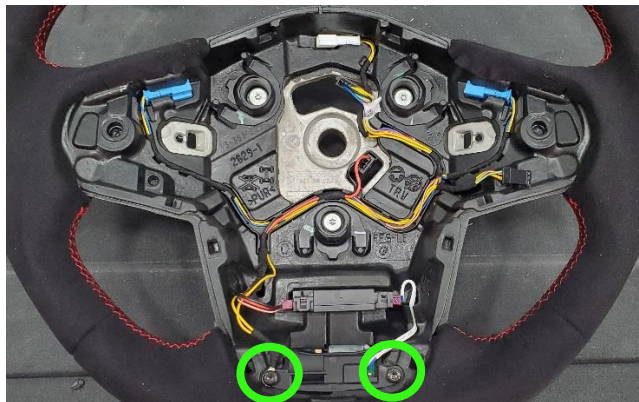
16 – Unplug the single electrical connection circled below and set the buttons and bezel aside.



17 – Grab the remaining lower trim piece where indicated and pull straight out, it's only held in with clips but it may take some force.



18 – With the bezels both removed, it's time to transfer the wiring across to the new wheel. Remove the two T20 torx screws, circled below, holding the haptic sensor into the bottom of the wheel. With these removed, the wheel wiring harness can be removed.

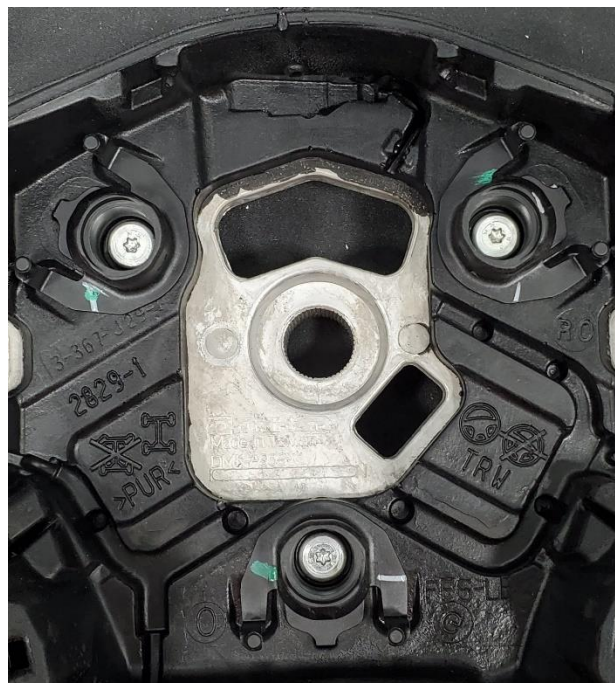




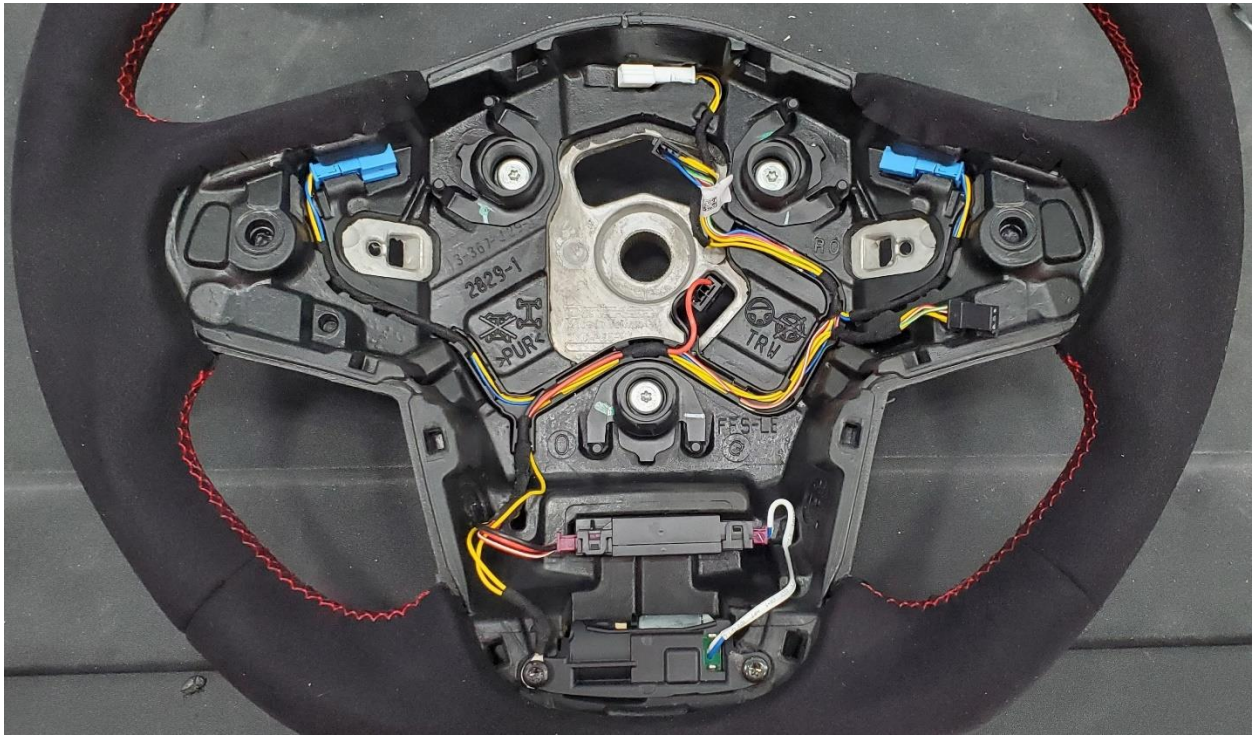
19 – Remove the 3 black plastic stand-offs left in your old wheel but simply prying them out of place with your hands.



20 – Install the 3 stand-offs on your new steering wheel by pressing them in place, along with the 3 shoulder bolts removed earlier in step 12.

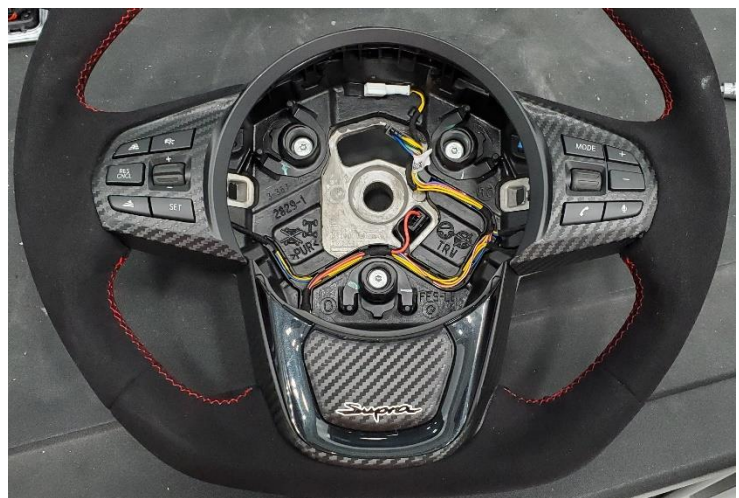


21 – Lay the wiring harness into the channels in your new wheel, taking care to place the haptic sensor and receiver in their respective slots. Tighten the 2 torx screws that were removed earlier. Be sure to attach the ground-wire ring terminal to the left screw so it makes good contact.



22 – With the wiring laid, snap the lower bezel back into place by placing it over the hole and pressing in.

23 – Next, take the upper bezel and reconnect the single electrical connector. Then snap back into place.



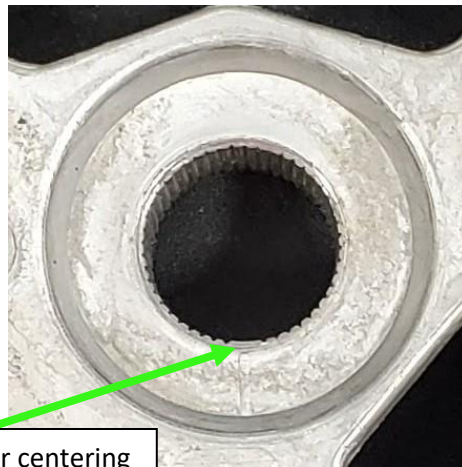


24 – Flip the wheel over and reinstall the 2 torx screws that hold the up button and bezel in place. If you are confused which to use, the longer of the 2 screws that are left are the ones for this bezel and the shorter ones are for the 2 paddle shifters.

25 – Next feed the blue paddle shift connector through the hole in the steering wheel and connect it to the wheel harness. Screw in the remaining torx screw to secure. Repeat for the opposite side.



26 – Taking care not to rotate or otherwise disturb the clock spring in your car, install your new steering wheel. There will be 1 larger tooth on the inner splined section of the wheel at the 6'oclock position (shown below) that only allows the wheel to be oriented one way. Slide the wheel on as far as it will go, taking care to line up the splines.



Larger gap for centering



27 – With the wheel seated on the splines, apply some thread-locker to the factory bolt and then thread it into place. Using the same tools from the removal of this bolt, torque the bolt to 46 ft-lbf.

28 – Next plug the 2 electrical connectors from the steering wheel harness into their respective spots on the clock spring. At this point the wheel will look like this.



29 – Last will be reinstalling the airbag. Place the airbag in the same orientation it was when it was removed in step 8. Reconnect the black and white connectors. Then using 2 hands, firmly press the airbag in from either side. It should snap back into place.

30 – Reconnect your positive battery terminal and tighten with a 10mm wrench. Replace the black plastic cover by snapping it on over the top. Replace your trunk floor and close the hatch. Your install is now complete, time to enjoy your new OLM steering wheel!