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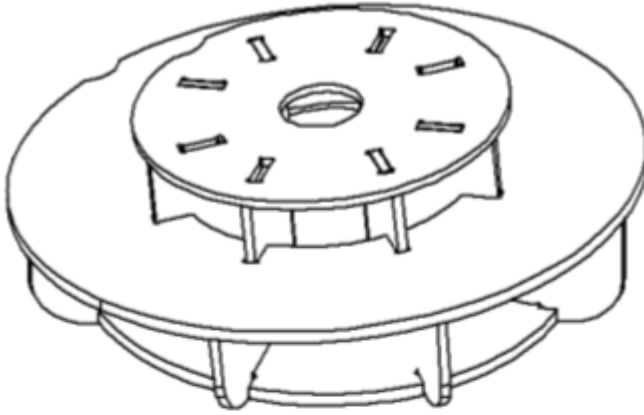
TANDEM *OFF-ROAD*



2008-2022 TOYOTA SEQUOIA PLATINUM REAR LIFT SYSTEM - INSTALL INSTRUCTIONS

2008-2022 TOYOTA SEQUOIA PLATINUM PUCKS INSTALL INSTRUCTIONS

Package Contents:



2x
Tandem Platinum Puck Airbag Spacers



1 nib



2 nib



3 nib

6x
Tandem Ride Height Arms (2 each)



6x
m8 x 1.25 x 16mm Button Head Screws



2x
m8 x 1.25 x 25mm Button Head Screws



8x
m8 Washers

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These instructions are written assuming you are using a vehicle lift. It should be possible without a lift, but we have not done it here.

-Make sure the vehicle is off and the key is out of the ignition. The automatic ride height system on the 2nd Gen Sequoia responds very well to these modifications. However, it can act up if it gets readings from the sensors that are too far out of range or have too much deviation from right to left. We found this can best be avoided by keeping the ignition completely off until these modifications are fully installed. This avoids the system getting any crazy ride height sensor values while you are still in the install process. However, the final ride height adjustments can be done with the ignition on (covered in Part 3).

Part 1. Installing the Pucks.

Step 1A. Remove the Airbags

- With the vehicle on a lift, remove both rear wheels.
- Disconnect air lines going to rear airbags.
- Lift airbags from bottom to deflate and compress them.

Note: You might want to mark the position of the airbag at the top with a paint pen to help with re-assembly.

- Remove the retaining clip at the top of the airbag keeping it from rotating.
- Rotate airbags to remove them from top mount on chassis.
- Lower airbag and remove it from the vehicle.



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Step 1B. Install Platinum Puck Lift system Pucks.

- Drop the puck into the airbag pocket in the lower control arm.
- Rotate the puck until the three holes in the puck align with the three holes in the lower control arm.
- Install three m8 x 1.25 x 16mm button head screws (The shorter of the screws provided). The screws are installed from the bottom side of the lower control arm and thread into the puck. These secure the puck into the control arm.



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Step 1C. Reinstall the factory airbag.

- Take your compressed airbag and lift it into the top airbag pocket in reverse of the removal process.
- Rotate the airbag to engage the retaining tabs on the top. The correct position will be when the fitting the airline connects to is pointing to the rear of the vehicle and is accessible. Note that it is possible to engage only one of the two retaining tabs which is incorrect. Be sure they are both engaged.
- Reinstall the clip at the top of the airbag.



Step 1D. Connect the airbag to the platinum puck

- Pull down on the bottom of the airbag slowly to extend it down. The bottom of the airbag has a disc with a large hole in. That hole slides over the top feature on the puck and the disc should sit onto the matching disc on the puck. Sometimes this is a snug fit so make sure the bag is fully seated onto the puck.
- Now install the longer m8x1.25 button head screw in the center of the lower control arm. This connects the puck to the airbag.
- Reconnect the airline to the airbag.
- Repeat for the other side.

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Part 2. Installing the Ride Height Arms.

Step 2A. Remove factory ride height arms.

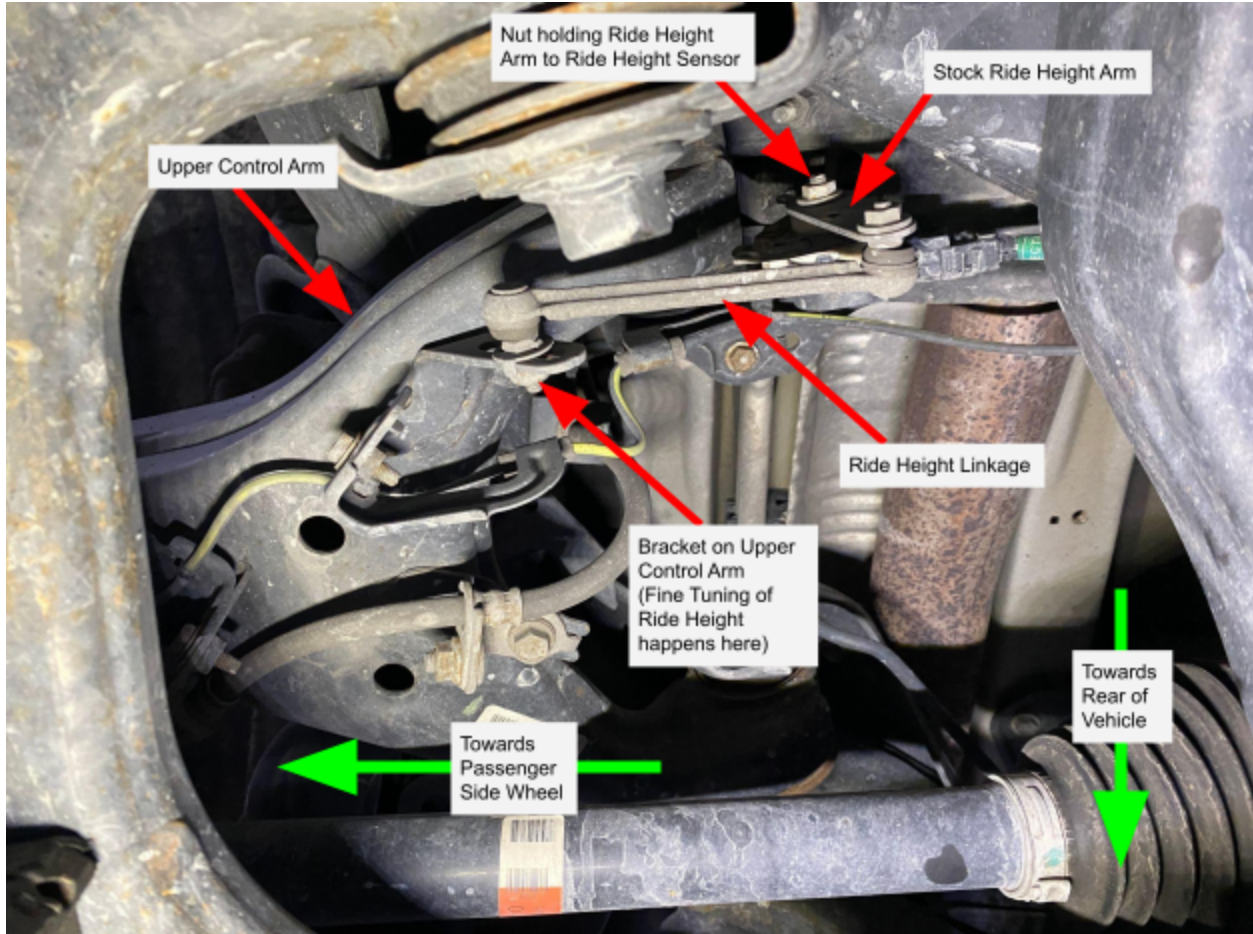
Note: One end of the arm is connected to the ride height sensor, and the other end is connected to the linkage which connects to a bracket on the lower control arm.

-Start by marking the stud on the ride height sensor with a paint pin. Because there is a shoulder on the stud that the arm indexes to we need to mark its starting rotation to make sure we do not install the new ride height arm upside down.

-The new arms will be installed with the nibs pointing outward.

-Next remove the nut retaining the ride height arm onto the ride height sensor to remove the arm from the sensor. As mentioned, note the rough rotational position of the indexing shoulder on this stud, take a picture if it helps.

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Step 2B. Finish removing the ride height arm.

Take note which side of the arm the linkage is connected to.

-Remove the nut retaining the other end of the ride height arm which connects to the linkage.
The factory arm is now removed.

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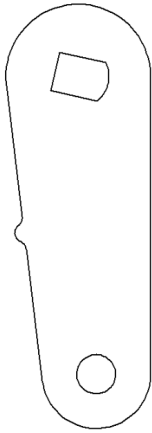
Step 2C. Install the tandem ride height arm to the linkage.

There are three arm options supplied with your kit. They are designated by one, two or three nibs on the side of the arm. Because of the adjustability built into the system there is some overlap between the options.

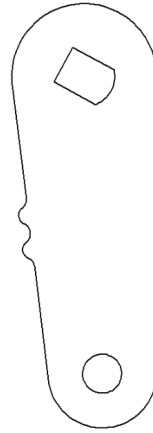
Most customers will use the two nib option.

Note: The arms will be installed with the nibs pointing towards the outside of the vehicle.

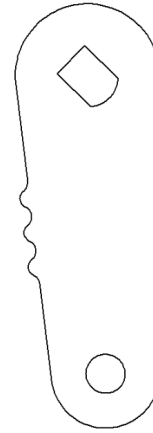
-Install the Tandem ride height arm to the linkage.



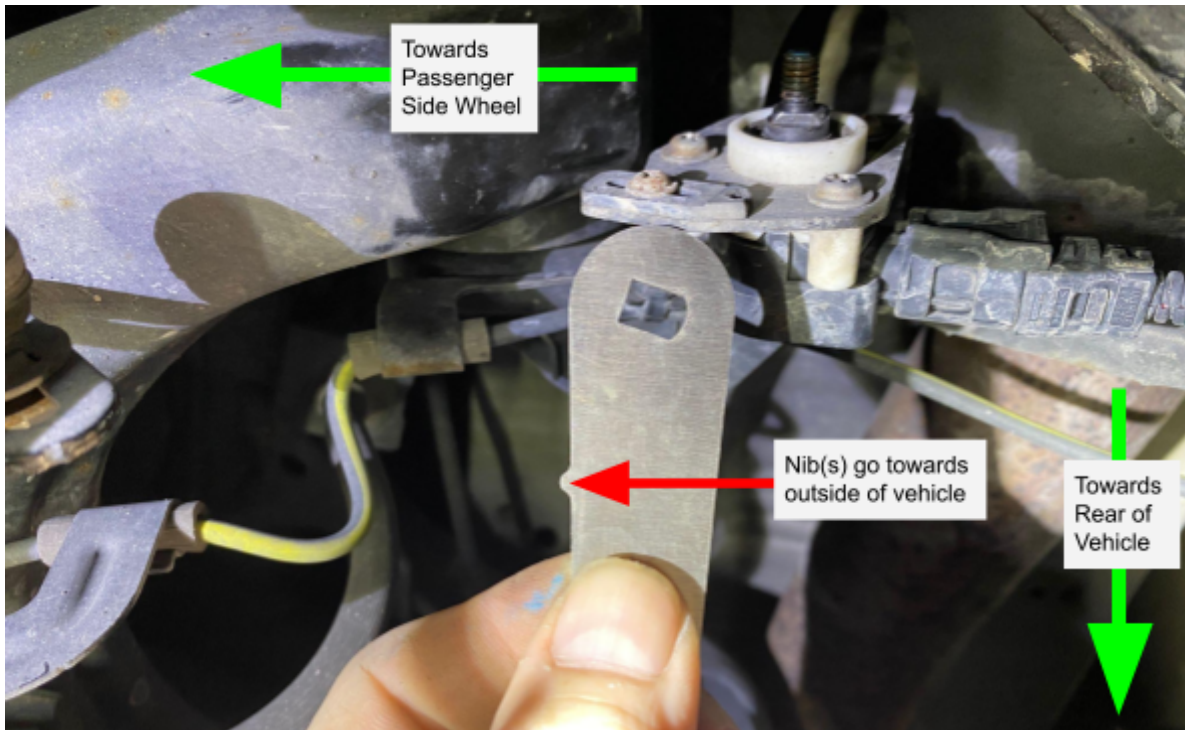
1 Nib = 0" to 1.5" Lift



2 Nib = 1.5" to 3" Lift



3 Nib = 3" + Lift

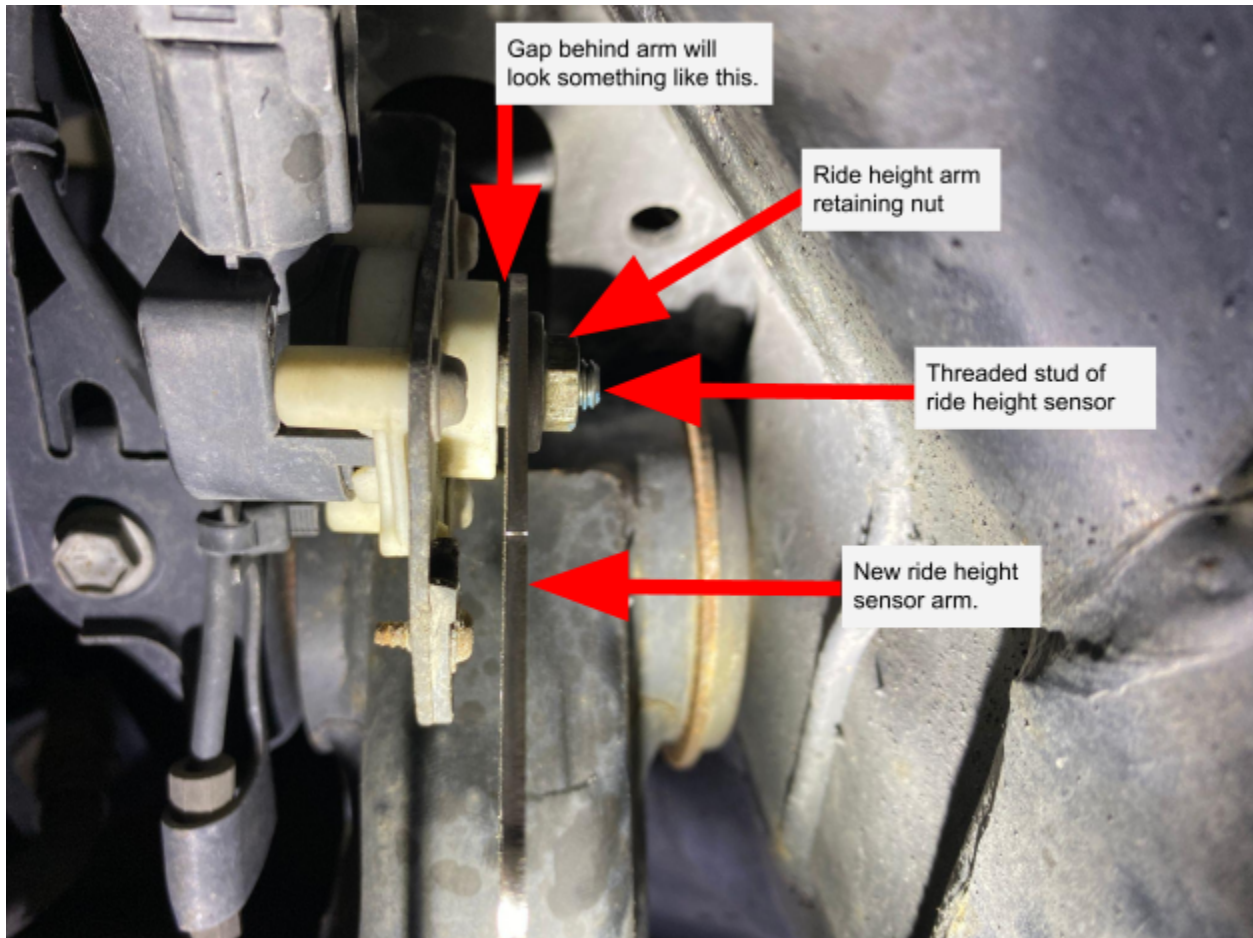


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Step 2D. Install the Tandem ride height arm to the ride height sensor.

-Drop the Tandem ride height arm onto the stud on the ride height sensor. Make sure to properly engage the indexing shoulder between arm and sensor stud.

-Now you can re-install the nut onto the stud retaining the arm. The challenge here is holding the arm so that it engages with the indexing shoulder while you tighten the nut.



Make sure after the Tandem ride height arm is installed on the sensor that the arm is fully seated onto the indexing shoulder. There will be a small gap between the arm itself and the ride height sensor. If the gap is thicker than the thickness of the arm it may not be seated correctly. The gap should be similar to the image shown.

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Part 3. Adjusting the Ride Height

Step 3A. Settle the rear suspension.

-Now that the installation of the parts is complete, lower the vehicle back to the ground. The rear suspension will be at maximum compression as the airbags are deflated.

-Now you can start the engine on the vehicle. Soon the air pump should begin inflating the airbags. The suspensions will be bound up and the final height the rear will sit at will not be apparent yet.

-Drive the vehicle around the block and over some bumps to get the rear suspension to fully settle.

Step 3B. Adjust the ride height.

-Fine tuning the ride height is accomplished by adjusting the position of the ride height linkage on the upper control arm. The linkage connects to a slotted bracket on the upper control arm. Adjusting towards the center of the vehicle (away from the wheel) will raise the ride height.

-Try to get both sides into a similar position.

-If you cannot get the rear high enough or low enough you will need to switch to a different set of ride height arms.

