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TOYOTA 4RUNNER 2 & 4WD WITH MANUAL TRANSMISSION BODY LIFT KIT

INSTALLATION INSTRUCTIONS

1990-1995

2" KIT# 5512

3" KIT# 5513

WARNING

This body lift kit should only be installed on vehicles that are in good working condition. Before the installation begins, the vehicle should be thoroughly inspected for evidence of corrosion or deformation of the sheet metal around the factory body mounts. This body lift kit should not be installed on any vehicle that is suspected to have been in a collision, or misused. Off road use of your vehicle with this body lift installed may increase the stress applied to the factory body mounts. It is not recommended that any vehicle, with a body lift installed, be involved in any extreme off road maneuvers. Failure to follow this warning may result in serious personal injury and/or serious damage to your vehicle.

WARNING

Performance Accessories strongly discourages the use of a suspension lift kit or any other lift device in addition to a body lift kit. A vehicle that uses a combination of lift devices not originally engineered to be used together may result in unexpected and unsafe handling characteristics. Many states now have laws restricting bumper heights and vehicle lifts. Local laws should be consulted to determine if the changes you intend to make to your vehicle comply with state laws.

WARNING

The installation of larger wheel and tire combinations may reduce the effectiveness of the Anti-lock Braking System.

NOTE

Performance Accessories recommends using the Loctite® supplied in the kit, on all hardware unless noted in the instructions.

WARNING

Always wear eye protection when operating power tools.

WARNING

Make sure that your vehicle is properly blocked and secured before you begin installation of this lift kit.

1. Read the instructions completely and carefully before you begin. Check the kit for proper contents (refer to the part's list and picture diagrams. If anytime during the installation you encounter something different from what is outlined in the instructions, call technical support. (928) 636-3175, or visit our web site at www.p-a-g.net

WARNING

Installation of a Performance Accessories body lift will change the center of gravity and the handling characteristics of the vehicle. Because of the higher center of gravity and larger tires, the vehicle will handle and react differently both on and off road. You must drive it safely! Extreme care must be taken to prevent vehicle rollover or loss of control, which could result in serious injury or death. Avoid sudden sharp turns or abrupt maneuvers and always make sure all vehicle occupants have their seat belts fastened.

WARNING

Read and understand all instructions, warnings, cautions, and notes in this sheet and in your owner's manual before you begin the installation of this body lift kit.

CAUTION

Proper installation of a Performance Accessories body lift kit requires knowledge of the factory recommended procedures for disassembly an assembly of original equipment components. It is recommended that the factory shop manual and any special tools necessary to your vehicle be on hand during the installation. Installation of this body lift kit without proper knowledge of the factory recommended procedures might affect the performance of these components and the safety of your vehicle. It is strongly recommended that a certified mechanic who is familiar with the installation of similar components install this body lift kit.

 **WARNING**

Do not attempt to install this kit on a 2-wheel drive model equipped with power steering. The steering shaft flange can make contact with the upper control arm. This could result in damage to the vehicle and possible personal injury.

 **NOTE**

This kit is not designed to fit a vehicle equipped with an automatic transmission. There are modifications required that are not outlined in the installation instructions, nor are there any parts included to accomplish these modifications.

2. Park the vehicle on a clean, dry, flat (level) surface. Block the tires so the vehicle cannot roll in either direction. Manual transmissions should be placed in neutral.

3. Remove both battery cables. Be sure to remove the negative cable first, then the positive cable.

4. Remove the four screws that mount the doorjamb scuff plates to the floorboard in the front and rear door area. Remove the scuff plate at the rear hatch area. Carefully remove the plastic kick panels in the front floorboard. Remove the two tabs that mount the center panel to the console. Remove the rear panels between the front and rear seat. It may also be necessary to remove the panels in the cargo area to allow the carpet to be pulled up. Pull the carpet back to reveal the body mount access covers. The body mount bolts are located in the front floorboard, in the rear floorboard, behind the back seat, and at the rear of the cargo area inside the vehicle. There is another mount located at the front in the core support. Remove all of the access covers inside the vehicle. Pull the carpet back and over both shift levers. Remove both shift knobs. Remove the screws that mount shift boots to the floorboard. Remove both shift boots.

5. Remove the overflow hose from the radiator spout. Remove the 4 bolts that mount the radiator to the core support. After the 4 bolts have been removed, the radiator will still hang on the core support. Lift the radiator up and out of the slots in the core support. Straighten the tabs on the radiator. Allow the radiator to lie on the fan while lifting the vehicle.

6. Remove the 4 bolts that mount the front bumper to the frame. Disconnect the wires that go to the driving lights on the bumper (if equipped). Remove the 2 nuts that mount the outside of the bumper to the body (there are holes in the fender well for access). Remove the front bumper from the vehicle.

7. If the vehicle is equipped with an alternator to frame ground strap, remove the bolts that mounts the ground strap to the frame. Using the stock bolt, mount the ground wire extension to the frame. Mount the ground cable to the extension using a 5/16" x 1" bolt, 2 - 5/16" washers, and a 5/16" nylock nut. Tighten securely.

8. Remove the bolt that mounts the battery ground to the frame. Using the stock bolt, mount the ground cable extension to the frame. Tighten securely. Using a 5/16" x 1" bolt, 2 - 5/16" washers, and a 5/16" nylock nut, mount the battery ground cable to the ground cable extension. Tighten securely. **DO NOT RECONNECT THE BATTERY CABLE TO THE BATTERY AT THIS TIME.**

9. If the vehicle is equipped with power steering, loosen the bolt that holds the lines running to the cooler (located on the driver's side of the vehicle behind the grill assembly). This will allow the lines to move slightly while lifting.

10. Remove the clip holding the hydraulic clutch line to the support on the passenger side firewall.

11. Mark the lower steering shaft where it connects to the steering gearbox. This is to insure proper alignment of the steering after the steering extension has been installed. Remove the bolt that attaches the steering shaft to the universal joint under the dash. Remove the bolt that mounts the steering shaft to the gearbox. Slide the steering shaft up into the universal joint and off of the gearbox. Slide the steering shaft down and out of the universal joint, and through the firewall plate. Remove the steering shaft from the vehicle.

12. Remove the bolts that mount the firewall plate to the firewall. Remove the firewall plate from the vehicle. It will be replaced with a new firewall plate.

13. Check for any wires, hoses, cables, etc. that may bind while lifting. Disconnect as necessary. Make a diagram to insure proper reconnection after the lifting operation is complete.

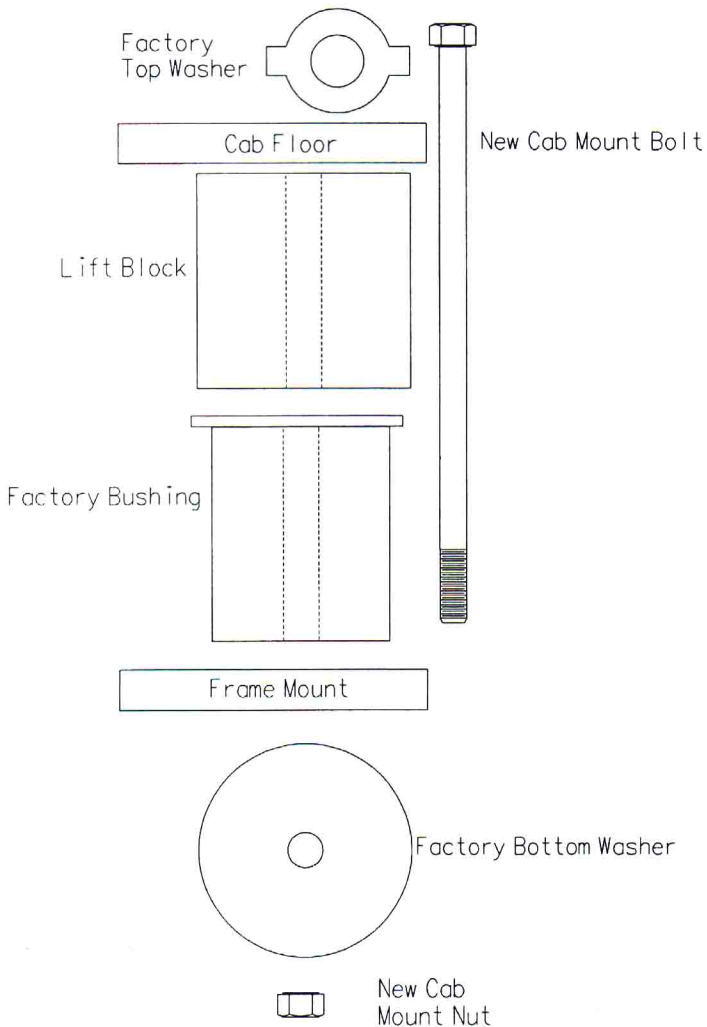
14. Loosen, but do not remove all 10 body mounting bolts. They are located on both sides of the vehicle as follows; at the front of the vehicle in front of the core support, in the front floorboard, behind the front seat, behind the rear seat, and at the rear of the cargo area.

 **WARNING**

Failure to replace the OEM body mounting hardware, including all factory body mount washers, (except mounting bolts) in the stock locations could result in damage to the vehicle and serious personal injury.

15. Remove the stock nut and stock washer from the bottom of each body mounting bolt on the passenger side of the vehicle only. Remove the body mounting bolts from the passenger side of the body. Remove the stock washers from the stock bolts. The washers are attached to the bolt with splines on the bolt. To remove the washer, place the bolt in a vice with the vice clamped on the shank of the bolt. Slide a socket that is larger than the head of the bolt or pipe over the head of the bolt until it makes contact with the washer. Tap on the socket until the washer has slid past the splines and remove the washer from the bolt. **All stock washers must be reused in their original locations.** Be sure that the doors are closed. This will help prevent the body from flexing while it is being lifted. Using a hydraulic jack and a wooden block, slowly lift the passenger side of the body just high enough to place the spacer blocks on the stock rubber mounting pads. Place the large diameter spacers on the mounting pads under the floorboard, the rear floorboard and behind the rear seat. The small diameter spacers should be placed on the front mounting pad under the core support and at the mount at the rear of the cab. The following bolts are to be installed at the following locations: 3/8" x 6" (3/8" x 5" for a 2" kit) at the front mount at the core support, 3/8" x 7" (3/8" x 6" for a 2" kit) under the front floorboard, 3/8" x 7" (3/8" x 6" for a 2" kit) behind the front seat, 3/8" x 8" (3/8" x 7" for a 2" kit) behind the rear seat, 3/8" x 8" (3/8" x 7" for a 2" kit) at the rear of the cargo area. Install the stock top washer from the core support mount on the 3/8" x 6" bolt. Install the stock top washer from the front floorboard mount on the 3/8" x 7" bolt. Install the stock top washer from the mount behind the front seat on the 3/8" x 7" bolt.

Install the stock top washer from the mount behind the rear seat on the 3/8" x 8" bolt. Install the stock top washer from the mount behind the rear of the cargo area on the 3/8" x 8" bolt. After the stock top washers have been installed on new body mounting bolts, insert all body mounting bolts from the top down through the body, through the spacers and through the stock rubber body mounts that are attached to the frame. **Be sure that all parts of the stock body mounts are returned to their original location.** Install the stock bottom washer from the core support mount on the bottom of the front body bolt. Install a 3/8" nylock nut on the bolt. Install the stock bottom washer from the front floorboard mount on the front floorboard body bolt. Install a 3/8" nylock nut on the bolt. Install the stock bottom washer from the mount behind the front seat on the bottom of the mount bolt behind the front seat. Install a 3/8" nylock nut on the bolt. Install the stock bottom washer from the mount behind the rear seat on the bottom of the mount bolt behind the rear seat. Install a 3/8" nylock nut on the bolt. Install the stock bottom washer from the mount behind at the rear of the cargo area on the bottom of the mount bolt at the rear of the cargo area. Install a 3/8" nylock nut on the bolt. Do not tighten any of the body bolts at this time.



16. Repeat step 15 for the driver's side of the body. Remove the nuts from the body bolts one at a time. Apply Loctite® to the nuts and bolts. Reinstall the nuts on the bolts. Tighten all body mounting bolts securely. Install the four bed overload pads on the frame under the bed cross supports. Tack weld the overload pads to the frame.

17. Remove the 3 screws that mount the fuel filler neck to the body. The fuel filler hose may need to be adjusted after the bed has been lifted.

! WARNING

All welding should be performed by a certified welder only.

18. Check the fuel filler hose to be sure that there is ample slack in the hose to reconnect it to the body. It may be necessary to loosen the hose clamps on the filler hose and adjust the hose. Be sure to also check the vent hose and adjust it as necessary.

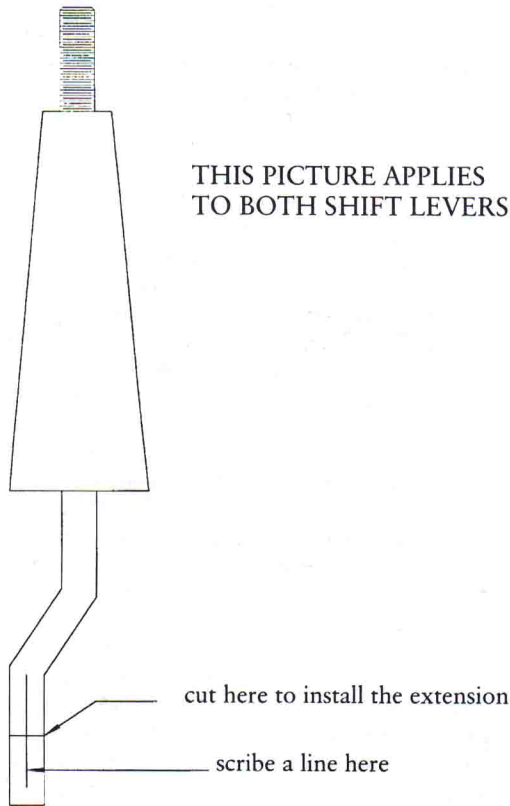
19. Using the 4 - 8mm x 20mm bolts, install the radiator drop down brackets to the core support where the radiator was originally mounted. Do not tighten. Mount the radiator to the studs protruding from the radiator brackets. Install a 1/4" washer and nylock nut on each of the four studs. Do not tighten. Adjust the fan to fan shroud clearance. The distance should be the same all the way around. Once the fan to fan shroud clearance has been adjusted, apply Loctite® to the studs and nuts, and tighten all radiator mounting hardware securely. Reconnect the overflow hose to the top of the radiator.

20. Remove the rubber boot that covers the large hole in the firewall plate. Using the two 5/16" x 1" bolts, four 5/16" washers and two 5/16" nylock nuts, install the boot on the new firewall plate. Do not tighten at this time. Install the new firewall plate to the firewall using the stock hardware. It may be desirable to install insulation tape (not included in the kit) around the outside edge of the plate to cut down on noise. Do not tighten at this time. Install the male end of the steering extension into the female end of the steering coupler. Install the stock steering retaining bolt across the recessed area of the extension. Do not tighten. The bolt should slide easily across the extension and thread into the other side of the coupler. Try to remove the extension from the coupler. If the extension separates from the coupler, **STOP!** The extension has been improperly installed. Start over! After the extension is properly installed into the steering coupler, extend the reference line made at disassembly down the extension. Slide the steering shaft through the firewall plate and into the universal joint under the dash. Install the factory mounting bolt in the universal joint. Do not tighten. Try to remove the shaft from the universal joint. If the shaft slides out of the universal joint, **STOP!** The shaft has been improperly installed. Start over! After the shaft is properly installed in the universal joint, slide the shaft all the way up into the universal joint to allow the extension to be installed on the gearbox-input shaft. Align the mark on the steering coupler and extension with the mark on the gearbox. Slide the extension all the way on the gearbox. Install the 3/8" x 1 1/4" steering extension bolt through the steering extension, across the recessed retaining groove on the input shaft, and treading into the other side of the extension. Try to pull the extension off the gearbox. If the extension will slide off the gearbox, **STOP!** The extension has been improperly installed. Start over! Once the steering has been reassembled properly and there is no possibility for any part of the steering to disengage, apply Loctite® to each of the retaining bolts. Tighten the 3/8" x 1 1/4" bolt to 20 lb.-ft. Tighten the factory retaining bolts to the recommended vehicle torque specifications. Tighten the firewall plate mounting bolts securely. Tighten the rubber boot mounting bolts securely.

! WARNING

All welding should be performed by a certified welder only.

21. Remove the manual transmission shift lever from the transmission. Be sure that the transmission is in neutral. Press down on the cover over the shift lever and turn to release the tension on the lever. Pull the shift lever straight up and out of the transmission. Scribe a line along the lever just above where the lever comes out of the transmission to insure proper alignment of the shift lever after it has been cut and lengthened. Using a hacksaw, cut the shift lever through the scribed line. Insert the shift lever extension pin between the two pieces of the shift lever. Be sure that the loose pieces remain on the shift lever and do not get damaged. Realign the scribed lines. Weld the extension in place. *We recommend that all welding be done by a certified welder only.* Replace the shift lever in the transmission. Turn and lock the cover in place. Check the shift lever operation. Be sure that there is complete engagement in all gears. In some cases it may be desirable to remove the shift lever and bend it to allow for better engagement with the gears, or for more room between the shift levers.



22. **4 wheel drive only.** Remove the "C" clip that holds the transfer case shift lever in the transfer case. Remove the shift lever from the transfer case. Scribe a line along the shift lever just above where the lever comes out of the transfer case to insure proper alignment of the shift lever after it has been cut and lengthened. Using a hacksaw cut the shift lever through the scribed line. **NOTE:** Because there is such a limited working space, be especially careful not to damage any of the attached parts when cutting and welding the shift lever. Insert the shift lever extension pin between the two pieces of the shift lever. Realign the two halves of the scribed line. Weld the extension in place. *We recommend that all welding be done by a certified welder only.* Replace the shift lever in the transfer case. Reinstall the "C" clip. Check the shift lever operation. Be sure that the shift lever engages completely in all ranges and does not interfere with the transmission shift lever operation. If it does interfere, it may be necessary to remove the shift lever and bend it to the right and to the rear.

23. Reinstall both shift boots. Reinstall both shift knobs. If there is any change in the operation of either shift lever remove the boots and adjust the shift lever as necessary.

24. Reinstall the access hole covers over the cab mounting bolts. Replace the carpeting to its original location. Reattach the center console cover. Reinstall the side kick panels. Reinstall the door jamb scuff plates. Tighten all mounting hardware securely.

25. Using the stock bolts, mount the front bumper brackets to the frame. Do not tighten. Using 4 - 7/16" x 1" bolts, 8 - 7/16" washers, and 4 - 7/16" nylock nuts, mount the front bumper to the new bumper brackets. Do not tighten. The outside bumper mounts should return to the original locations. Install the stock nuts on the outside bumper to body mounts. Do not tighten. Adjust the bumper to body clearance. Tighten all bumper mounting hardware securely. *We recommend the use of Loctite® or similar adhesive on all mounting hardware.*

26. Place the warning sticker on the dash of the vehicle in plain sight of all vehicle occupants.

27. Double check the vehicle. Check the entire vehicle for any wires, hoses, cables, etc. that may be binding and could have been missed earlier in the installation. Check the steering operation. Be sure that there is no binding. Check both shift levers' operation. Be sure that both shift levers engage in all gears and 4 wheel drive ranges. Check all mounting hardware. Be sure that it is all tightened properly. Check the fan to fan shroud clearance. Reconnect both battery cables. Be sure to connect the positive cable first, then the negative cable. Start the engine. Check all vehicle systems again. Check the steering, brakes, clutch, transmission and transfer case operation while the vehicle is running. Make sure that all systems are functioning properly. Test drive in all gears and 4 wheel drive ranges. Check all mounting hardware in 500 miles and as part of your regular maintenance schedule.

Parts List and Diagram on the next page.

90 - 95 Toyota 4Runner

Kit # 5513, 5512

Parts List

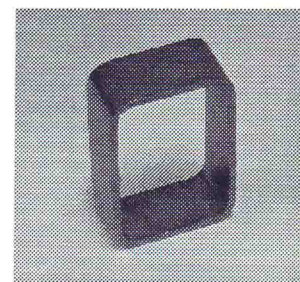
QTY.	DESCRIPTION	2" KIT	3" KIT
4	Body spacer Blocks 3" x 2"	2" Small Blocks	3" Small Blocks
6	Body Spacer Blocks 3 x 3"	2" Large Blocks	3" Large Blocks
2	Body Mount Bolts	3/8" x 5"	3/8" x 6"
4	Body Mount Bolts	3/8" x 7"	3/8" x 8"
4	Body Mount Bolts	3/8" x 6"	3/8" x 7"
10	3/8" Nylock Nuts		
2	1" x 4" Ground Extension Brackets		
4	5/16" x 1" Bolts		
4	5/16" Nylock Nuts		
8	5/16" SAE Washers		
4	2" x 3" Bed Support Brackets		
4	Radiator Dropdown Brackets		
4	1/4" Nylock Nuts		
4	1/4" SAE Washers		
2	Bumper Brackets		
4	8mm x 20mm Bolts		
1	Firewall Plate		
2	1/2 Round Shift Lever Extension		
1	Steering Extension SE9000		
1	3/8" Socket Head Bolt		



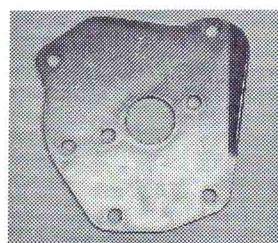
Large Spacer Blocks (6)



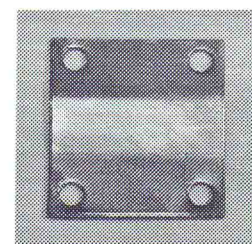
Small Spacer Block (4)



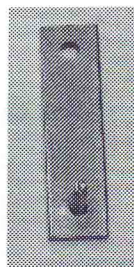
2 x 3 Spacers (4)



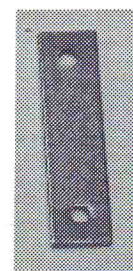
Firewall Plate



Bumper Plate (2)



Radiator Brackets (4)



Ground Cable Ext. (2)