



## 86-88 TOYOTA PICKUP INSTALLATION INSTRUCTIONS KIT # 9307

### ⚠WARNING

Installation of a TrailMaster 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 TrailMaster body lift kit requires knowledge of the factory recommended procedures for disassembly and 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

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

TrailMaster 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 complies with state laws.

### ⚠WARNING

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

### ⚠NOTE

TrailMaster 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.

1. Read all warnings and instructions completely and carefully before you begin. Check the kit for proper contents (refer to the Parts List at the end of this document). If at anytime during the installation you encounter something different from what is outlined in the instructions, call technical support at (888) 717-5797.
2. Park the vehicle on a clean, dry, flat, level surface. Block the tires so the vehicle cannot roll in either direction.
3. Disconnect both battery cables. Be sure to disconnect the negative cable first, then the positive cable.
4. Before you begin lifting the vehicle, you need to measure and record the bumper to vehicle gaps and also the distance between the cab and the bed. These dimensions will allow you to retain the factory spacing at these locations.
5. Remove the center shifter console, shift boot, and plate. Remove the doorsill plates and the kick panels. Carefully lift the carpet to expose the cab-mounting bolts. Loosen but do not remove all cab mounting bolts.
6. Carefully mark the splines on the steering shaft in the engine compartment at the steering box and steering column so that the shaft can be reinstalled in the original orientation. Remove the shaft from the vehicle.
7. Release the parking-brake- cable clip from the firewall.
8. Remove the parking brake cable from the frame clip

next to the battery.

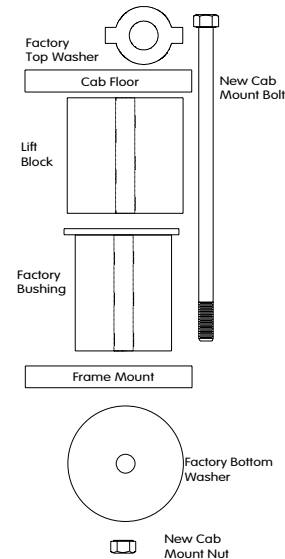
9. Release the clutch line from the clip on the lower portion of the firewall. Loosen the clutch line from the clip on the firewall located behind the carburetor. Reroute the clutch line underneath the heater hose closest to the passenger side of the vehicle.
10. If the vehicle is equipped with power steering, loosen the clamp just behind the grill that holds the serpentine cooling line and push the line toward the firewall. Loosen both brackets that hold the cooler. Adjust the hoses that are attached to get more hose clearance.
11. Relocate the engine ground strap from the firewall to the lower throttle cable bolt on the firewall.
12. **Automatic transmission only.** Remove the transmission linkage between the steering column and the transmission. Disconnect the transfer case shifter from the "C" shaped linkage.
13. Remove the oxygen sensor wire from the clip underneath the cab and make sure there is enough slack to allow for the lift
14. Remove the front bumper and lower valance.
15. Remove the two bolts that mount the fan shroud to the radiator. Pull the fan shroud up out of the clips on the bottom of the radiator. Lay the fan shroud over the fan away from the radiator.

### ⚠WARNING

Use extreme caution when working with the engine cooling system. Never remove the radiator cap from a hot radiator. Wait until the engine and radiator has cooled and the pressure in the system has dissipated. Use care not to spill any antifreeze/coolant while draining system. Immediately clean up any spilled fluids. Antifreeze can be harmful to the environment. Take care to store the drained antifreeze/coolant in a place away from children and animals. Antifreeze/coolant can be fatal if swallowed.

16. Remove the radiator cap. Drain the coolant into a clean container. Remove the upper and lower radiator hoses from the radiator. Remove the upper radiator mounting bolts. Remove the radiator from the vehicle. Remove the fan shroud from the vehicle.
17. Check all lines, wires and cables in the engine compartment to be sure they have adequate slack in them to allow for the lift.
18. Remove the cab mounting bolts from the passenger side of the cab. Check for any wires, hoses, cables, etc. that may be too short and that may not have been covered in the instructions. Using a hydraulic jack and wooden block, slowly lift the cab just high enough to

place the spacers on the mounting pads. The four 3" diameter blocks go under the cab; the 2" diameter blocks go under the core support and under the bed. Be sure to continuously check for any wires, cables, hoses, etc. that may be binding. Install the 3/8" x 6" bolts with the 3/8" nylock nuts and the stock hardware as shown in the diagram.



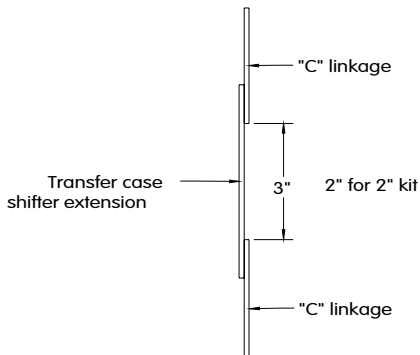
19. Repeat step #18 for the drivers' side of the cab. Align the cab to the bed using the measurements recorded earlier. Remove the cab bolts, one at a time, apply Loctite®, reinstall bolt and tighten to vehicle manufacturer torque specifications.
20. Check the lines that were moved in step #10 to make sure they are not pulled tight. Tighten the clamps securely.
21. Place the fan shroud over the fan and allow it to lie against the motor. Install the new radiator brackets in the stock location with the screws provided in the kit. Mount the radiator on the new studs and tighten securely. Place the fan shroud in the clips on the bottom of the radiator and bolt the fan shroud to the radiator. Check the fan to fan-shroud clearance and adjust as necessary.
22. Extending the steering shaft. Remove the rubber cap from the end of the shaft
23. Drill out both of the plastic shaft locating pins using a 1/8" drill bit and a drill press.
24. Temporarily install the shaft in the truck. The shaft should have to extend approximately 1" to 1 1/2". Mark the shaft at the slip joint and remove the shaft from the truck.

25. Mark the rubber damper U-joint, so that it can be reinstalled in the same orientation, and remove the damper.
26. Extend the shaft to the mark made in step #24. Drill a new 1/8" hole approximately 3/8" up from the bottom of the inner shaft. Using the original upper hole as a guide, drill out the upper hole to 1/8" and install the two 1/8" roll pins supplied in the kit.
27. Grind the roll pins flush with the shaft and use RTV silicone to seal the two holes in the shaft.
28. Reinstall the rubber cap in the end of the shaft, replace the damper and install the shaft in the truck.
29. Install the steering shaft making sure that all alignment marks are correctly oriented and completely engaged at both ends.
30. Install the front bumper with the new front bumper brackets provided in the kit. Adjust the bumper to body clearance and tighten securely. Reinstall the lower valance.

**⚠CAUTION**

A certified welder should perform all welding.

31. **Automatic transmission.** Remove the "C" shaped linkage from the transfer case. Cut the linkage above the pivot point and weld the flat extension as shown in the drawing. Scribe a line along the automatic transmission linkage rod then cut the rod through the scribed line. Place the shift rod extension between the two pieces and align the scribe marks. Tack weld the pieces together and check alignment before final welding. Replace the linkage and adjust. Check for gear shifter clearance in all gears and four-wheel drive ranges. It may be necessary to trim the floorboard around the shifter to allow it to engage all gears.



32. Remove the rear bumper.
33. Lower the spare tire to the ground and set it aside.
34. Loosen the wiring harness located above the spare tire.

**⚠WARNING**

Use extreme caution when working near fuel lines and fuel tank. Clean up spilled fuel immediately. Any spark could cause an explosion or fire resulting in serious personal and property damage.

35. Remove fuel filler hose and vent hose from fuel-filler neck.
36. Loosen, but do not remove all eight bed-mounting bolts (six on short bed models).
37. Remove the bed mounting bolts from the passenger side of the bed only. Using a hydraulic jack and a wooden block, slowly lift the bed just high enough to place the lift blocks on the bed mounting pads. Install the 1/2" x 4 1/2" bolts with the 1/2" washers, 1/2" nylocks and all stock hardware at all mounting locations on the bed. **Do not tighten at this time.**

**⚠CAUTION**

A certified welder should perform all welding.

38. Repeat step #37 for the driver side of the bed. Align the bed to the cab using the measurements recorded earlier. Remove the bed bolts, one at a time, apply Loctite®, reinstall bolt and tighten to vehicle manufacturer torque specifications. Place bed support blocks on the frame under the cross supports of the bed (there are four on long bed models, and two on short bed models) and weld them to the frame.
39. Install the new fuel vent hose with the supplied clamps and connect the fuel filler hose.
40. Install the rear bumper. It will not be lifted. Return the spare tire to its stored position.
41. Install the inner shift boot and frame. Check for proper engagement in all gears. Install the console, door sill plates, and the kick panels.
42. Connect both battery cables to the battery. Be sure to connect the positive cable first, then the negative cable.
43. Place the warning sticker on dash in plain sight of all vehicle occupants.

**⚠CAUTION**

All fasteners should be retorqued after 500 miles and after off road use. All body lift components should be visually inspected and fasteners retorqued during routine vehicle servicing.

44. Double-check the vehicle. Check for any wires, cables, hoses, etc. that may be binding. Check transmission and transfer case operation. Be sure that there is complete engagement in all gears and 4 wheel drive ranges. Start the vehicle. Check steering operation. Be sure that there is no binding. Check fan to fan-shroud clearance again. Check clutch operation. Test drive in all gears and 4 wheel drive ranges.

**△NOTE**

The vehicle owner must retain all warranty information, instruction sheets, and other documents regarding the installation of this product. Information contained in the instructions and on the warranty card will be required for any warranty claims. The vehicle owner needs to understand the modifications that have been made to his vehicle and how they affect the handling and performance of the vehicle. Failure to provide the customer with this information can result in damage to the vehicle and possible personal injury.

**△CAUTION**

TrailMaster does not recommend any particular wheel and tire combinations for use with its body lifts and can not assume responsibility for the customers choice of wheels and tires. Your owner's manual can be referenced for recommended tire sizes and warnings related to the use of oversized tires. Larger wheel and tire combinations increase stress and wear on steering and suspension components, which leads to increased maintenance and higher risk for component failure. Larger wheel and tire combinations also alter speedometer calibration, braking effectiveness, center of gravity, and handling characteristics. Consult with an experienced local off road shop to find what wheel and tire combinations work best with your vehicle.

Rev. 01 7/04 TrailMaster

## Parts List

- 4 3x3 blocks
- 10 3x2 blocks
- 4 3x2 overload pads (bed spacers)
- 2 Front bumper brackets
- 1 5/8" x 18" vent hose
- 1 Warning to driver sticker
- 1 Logo label
- 1 10ml bottle Loctite 262

- 1 **Bolt Pack**
- 8 1/2" x 4 1/2" bolts
- 6 3/8" x 6" bolts
- 16 1/2" USS washers

- 1 **Hardware Pack**

### Bolts

- 4 7/16" x 1" bolt

### Nuts

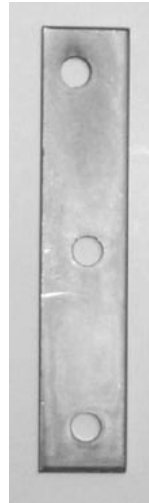
- 4 7/16" nylock nuts
- 8 1/2" nylock nuts
- 6 3/8" nylock nuts
- 4 1/4" nylock nuts

### Washers

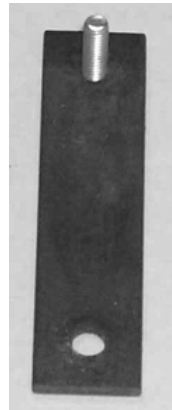
- 8 7/16" USS washers
- 8 1/2" SAE washers
- 4 1/4" SAE washers

### Miscellaneous

- 4 1/2" x 3" radiator spacers with studs
- 2 #10 hose clamps
- 4 8mm x 20mm sheet metal screws
- 1 Shift extension pin
- 1 Transfer case linkage extension
- 2 1/8" Roll pins



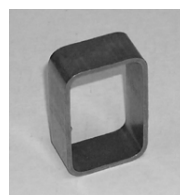
Front bumper bracket



Radiator lowering bracket



Lift block



Overload pad