



2265 Crosswind Drive • Prescott, AZ 86301  
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# TOYOTA PU, 4RUNNER 4WD REAR DUAL SHOCK SYSTEM INSTALLATION INSTRUCTIONS KIT # DS43

### ⚠ WARNING

This kit should only be installed on a vehicle that is in good working condition. Before you install the kit, thoroughly inspect the vehicle for corrosion or deformation of the sheet metal around the factory body mounts. If the vehicle is suspected to have been in a collision or misused, do not install this kit. Off-road use of your vehicle with this kit installed may increase the stress applied to the factory body mounts. We do not recommend that any vehicle with a body lift kit installed be involved in any extreme off-road maneuvers such as jumping. Failure to observe this warning may result in serious personal injury and/or severe damage to your vehicle.

### ⚠ WARNING

Read and understand all instructions, warnings and safety precautions in these instructions and your owners manual before attempting to install these components.

### PRODUCT SAFETY WARNING

Certain Performance Automotive Group products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Use of oversized tires, suspension lifts, body lifts and other suspension modifications may raise your vehicle's center of gravity resulting in an increased tendency for the vehicle to pitch and roll during sudden turns or abrupt maneuvers. Extreme care must be used to prevent loss of control or vehicle roll over. Failure to drive your modified vehicle safely may result in serious injury or death. Drive at reduced speeds to ensure your ability to maintain control of the vehicle under all driving conditions. Always wear seat belts.

### ⚠ CAUTION

Proper installation of Performance Automotive Group products requires knowledge of recommended procedures for disassembly/assembly of OE vehicles and components. Access to OE shop manuals and special tools are required. Attempting to install this kit without knowledge of these procedures may affect the safety of your vehicle and/or the performance of these components. Performance Automotive Group strongly recommends that this kit be installed by a certified mechanic with off-road experience.

## Before Starting Installation

1. Carefully read all warnings and instructions completely before beginning.
2. Verify all parts have been received in this kit by checking the parts list at the end of this document
3. **Only install this kit on the vehicle for which it is specified.** If anytime during the installation you encounter something different from what is outlined in the instructions, call technical support at (928) 636-3175.

### ⚠ CAUTION

Performance Automotive Group recommends the use of Loctite® on all hardware, unless noted otherwise.

### ⚠ WARNING

Properly block and secure vehicle prior to installation.

# Dual Shock Installation

1. Place two halves of lower (C) Clamp brackets around the axle housing with stud facing toward front of vehicle. Place mount approximately 3-1/2" inward from factory shock mounts. Tighten clamps enough to hold in place.
2. Install two halves of the upper (C) Clamp brackets on tubular crossmember approximately 3-1/2" inward from factory shock mounts. Tighten clamps enough to hold in place.
3. Shock position should be approximately parallel with original shock. Brackets may be slid back and forth until desired shock location is achieved. Tighten all bolts securely.
4. Repeat previous steps on opposite side of vehicle.
5. Install shocks using 5/8" washers provided between shock and mount. Use 7/16" flat washers provided between shock and nut.

## POST-INSTALLATION NOTES

### **⚠ CAUTION**

Retorque all fasteners after 500 miles and after off road use.

1. Retain this and all information regarding your altered vehicle for future reference. Thank you for choosing Trail Master Suspension. For questions or suggestions, contact our Technical Assistance Department at (928) 636-3175.

## PARTS LIST

Qty	Description
2	2-5/8" Clamp Bracket W/Stud
2	2-5/8" Clamp Bracket
2	1-7/8" Clamp Bracket W/Stud
2	1-7/8" Clamp Bracket
4	1/2" Lock Nut
4	5/8" Washer
4	7/16" Flat Washer
8	7/16" x 1" Bolt
8	7/16" Lock Nut

## Torque Specifications

See factory service manual for torque values when re-using OE fasteners.

<u>Bolt Size</u>	<u>Grade 5 (ft.-lbs.)</u>	<u>Grade 8 (ft.-lbs.)</u>
1/4"-20	10	10
1/4"-28	10	12.5
5/16"-18	17	22.5
5/16"-24	20	25
3/8"-16	30	40
3/8"-24	35	45
7/16"-14	50	65
7/16"-20	55	70
1/2"-13	75	100
1/2"-20	55	70
9/16"-12	105	135
9/16"-18	115	150
5/8"-11	150	195
5/8"-18	160	210
3/4"-16	175	225

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