

## Westin 31-6005

# WESTIN 31-6005 E-Series Bull Bar Instruction Manual

Model: 31-6005 | Brand: Westin  
For 2016-2023 Toyota Tacoma

## 1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Westin 31-6005 E-Series Bull Bar. Please read all instructions thoroughly before beginning installation to ensure a safe and correct setup. This bull bar is designed for 2016-2023 Toyota Tacoma models.

## 2. SAFETY INFORMATION

Always wear appropriate personal protective equipment, such as safety glasses and gloves, during installation. Ensure the vehicle is securely parked on a level surface with the engine off and parking brake engaged. Refer to your vehicle's owner's manual for specific safety precautions.

**CALIFORNIA WARNING: Cancer and Reproductive Harm -**[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 3. PARTS LIST

Verify all components are present before beginning installation.

- E-Series Bull Bar (Main Unit)
- Mounting Brackets (Vehicle Specific)
- Hardware Kit (Bolts, Washers, Nuts)
- Installation Instructions (This manual)

**Note:** A 20" LED light mounting bracket (Part No. 32-0045) and a license plate re-locator (Part No. 32-0055) are sold separately and are not included with this bull bar.

## 4. TOOLS REQUIRED

- Socket Wrench Set (14mm, 16mm, 17mm, 19mm recommended)
- Wrench Set (matching socket sizes)

- Cutting Tool (for plastic gravel guard/air dam, if applicable)
- Loctite Red (threadlocker, recommended for secure fastening)
- Measuring Tape (optional, for precise cutting)
- Safety Glasses
- Gloves

## 5. INSTALLATION INSTRUCTIONS

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Follow these steps carefully for proper installation. It is recommended to watch relevant installation videos for visual guidance, as some steps may require specific vehicle knowledge.

### 5.1. Unboxing and Inspection

Carefully unbox the bull bar and all components. Inspect for any damage or missing parts. The bull bar and hardware should be well-packaged to prevent damage during transit.



Figure 1: Front view of the Westin E-Series Bull Bar.



Figure 2: Side view of the Westin E-Series Bull Bar, showing the curved design.



Figure 3: Angled view of the Westin E-Series Bull Bar, highlighting the skid plate with the Westin logo.

## 5.2. Prepare the Vehicle

1. Park the vehicle on a flat, level surface and engage the parking brake. Turn off the engine.
2. Locate the factory tow hooks (if present) on the front frame rails. These will need to be removed and will not be reused for the bull bar installation.

3. Identify the 14mm nuts holding the front bumper frame. These will be loosened or removed to attach the mounting brackets.
4. **Important Note on Gravel Guard/Air Dam:** Many 2016-2023 Toyota Tacoma models feature a plastic gravel guard or air dam across the front. This component will likely need to be cut to accommodate the bull bar's mounting brackets. It is recommended to install the bull bar and then mark the areas for cutting to ensure a precise fit. Some users prefer to remove the guard entirely or make minimal slots.

### 5.3. Install Mounting Brackets

1. On the driver's side, remove the 14mm nuts from the front bumper frame.
2. Insert the M10 U-Bolt into the frame rail.
3. Attach the driver's side mounting bracket to the frame rail, aligning it with the U-bolt and the existing bolt holes. Secure the bracket using the previously removed factory hardware and the U-bolt nuts. Apply Loctite Red to the threads. **Do not fully tighten at this stage; leave some slack for adjustments.**
4. Repeat the process for the passenger's side mounting bracket.

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Video 1: Installation of a bull bar mounting bracket, showing removal of factory tow hooks, insertion of U-bolts, and attachment of the bracket to the frame rail. **Note: This video is for a Ford F150 and serves as a general visual guide. Always refer to the written instructions for your specific 2016-2023 Toyota Tacoma model.**

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Video 2: Another perspective on bull bar bracket installation, demonstrating the attachment of the mounting bracket to the frame rail. **Note: This video is for a Ford F150 and serves as a general visual guide. Always refer to the written instructions for your specific 2016-2023 Toyota Tacoma model.**

### 5.4. Attach Bull Bar to Brackets

1. Carefully lift the bull bar and align its mounting points with the installed brackets.
2. Insert the provided bolts, washers, and nuts to connect the bull bar to the brackets. It may be easier to attach the bull bar to the lower brackets first, then secure the upper connections.
3. Apply Loctite Red to all threads. **Hand-tighten all hardware only at this stage.** This allows for final adjustments.

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Video 3: A user demonstrating the installation of a bull bar, including the attachment of the bull bar to the mounting brackets. **Note: This video is for a 2005-2015 Toyota Tacoma and serves as a general visual guide. Always refer to the written instructions for your specific 2016-2023 Toyota Tacoma model.**

### 5.5. Final Adjustments and Tightening

1. Adjust the bull bar to your desired position, ensuring it is level and centered.
2. Once satisfied with the alignment, fully tighten all nuts and bolts using the appropriate wrenches/sockets (16mm, 17mm, 19mm as needed). Ensure all connections are secure.
3. If you chose to retain the plastic gravel guard/air dam, carefully mark and cut the necessary sections to fit around the bull bar and its brackets. Reinstall the modified guard.



Figure 4: The Westin E-Series Bull Bar installed on a Toyota Tacoma.

## 6. OPERATING INSTRUCTIONS

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The Westin E-Series Bull Bar is a passive accessory and requires no specific operational steps after installation. It provides front-end protection and a mounting point for auxiliary lights.

## 7. MAINTENANCE

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- Regularly inspect all mounting hardware for tightness. Re-tighten as necessary.
- Clean the bull bar with mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the powder-coated finish.
- Check for any signs of rust, chipping, or damage to the finish. Address any issues promptly to maintain appearance and integrity.

## 8. TROUBLESHOOTING

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- **Loose Fit/Rattling:** Re-check all mounting bolts and nuts. Ensure they are tightened to the recommended torque specifications (if available, otherwise securely tightened).
- **Misalignment:** Loosen mounting hardware slightly, adjust the bull bar's position, and then re-tighten all fasteners.

## 9. SPECIFICATIONS

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<b>Model Number:</b>	31-6005
<b>Material:</b>	3" diameter black powder coated steel tubing
<b>Finish:</b>	Textured black skid plate, black powder-coated e-coated steel
<b>Compatibility:</b>	2016-2023 Toyota Tacoma
<b>Item Weight:</b>	31 pounds
<b>Product Dimensions:</b>	43 x 21 x 14 inches
<b>Light Mounting Points:</b>	2 (on top of center bar)

## 10. WARRANTY

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This product is backed by a 3-year warranty. For specific warranty details and claims, please refer to the manufacturer's official website or contact customer support.

## 11. CUSTOMER SUPPORT

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For technical assistance, missing parts, or warranty inquiries, please contact Westin Automotive Products customer service. Contact information can typically be found on the manufacturer's website or product packaging.