INSTALLATION INSTRUCTIONS



BSEX-A-LCR31-D

Superior Billet Series 6061-T6 Alloy Bump Stop Extensions 25mm Suitable For Toyota LandCruiser 76/78/79/80/105 Series Front

INSTALLATION INSTRUCTIONS

IMPORTANT

Please read and understand these installation instructions before beginning the installation process. Retain these installation instructions for future reference. It is recommended that this item be installed by a qualified person(s) with sound knowledge of 4x4 Steering & Suspension Geometry and/or 4x4 Accessories.

If you are unsure about any of the following steps, please contact Superior Engineering's Sales Team – (07) 5433 1411

WARNINGS

- Estimated installation time: 1 Hour(s)
- The following steps are the installer's responsibility.
- Ensure all parts have been received correctly and are suitable for the intended vehicle before undertaking any installation.
- Ensure sure all fasteners are tightened to the advised torque settings and 262 Loctite is used on all threads unless otherwise specified.
- Recheck all fasteners within 500Kms of installation, and at every service interval thereafter.
- This product must be installed as per these instructions, only using the hardware supplied by Superior Engineering unless given prior written consent from Superior Engineering.
- This product is not to be fitted differently or modified in any way other than specified by Superior Engineering.
- This product is not to be used on any other vehicle than those specified by Superior Engineering.
- Once the product has been installed ensure all OE and Aftermarket components within proximity of the installed Superior Engineering component clear through the full range of your vehicle's Steering & Suspension movement.

INSTALLATION INSTRUCTIONS

PART(S) CHECKLIST

PID	DESCRIPTION	QTY	IMAGE
-	*Superior Billet Series Bump Stop Extensions 25mm - CHASSIS*	*2*	
-	*Superior Billet Series Bump Stop Outer Extensions 25mm - COIL*	*2*	
-	*Superior Billet Series 6061-T6 Alloy Bump Stop Extensions 25mm – BOLT KIT*	*1*	*4 x M8 x 1.25 x 50 Socket Head Bolt* *2 x M8 x 1.25 x 45 Socket Head Bolt* *6 x M8 x 19 x 1.6 Plain Washer* *6 x M8 Spring Washer* 

TORQUE SETTINGS

SIZE	TORQUE (Nm)	TORQUE (lb.ft)
M6	13	10
M8	25	18
M10	49	36
M12	85	64
M14	135	96
M16	215	157

CAUTION

Ensure all bolts are tightened to the correct torque setting with 262 Loctite. Re-check in 500km and at every service interval thereafter

INSTALLATION INSTRUCTIONS

INSTALLATION STEPS

1. Park the vehicle on a level surface and ensure it is secure. Alternatively, position the vehicle securely on a hoist, using the manufacturer's designated lifting points.
2. Review the kit's components and confirm that all parts are supplied. *Refer to Parts Checklist above*
3. Following the vehicle's workshop manual, remove the Front coil springs from your vehicle *If aftermarket components are fitted, follow their respective instructions.*
4. The Bump Stops located inside the coil are held in with one bolt located inside the rubber Bump Stop, using a socket with an extension loosen and remove this bolt.
5. With the Coil Bump Stop out of the way, access to the Chassis mounted Bump Stop will be unobstructed. *Refer to Figure 1 for visual guidance*
6. Loosen and remove the Chassis mounted Bump Stop, be sure to keep the Bump Stop but the hardware can be disregarded.
7. Utilising the Superior Billet Bump Stop Extension (Chassis), and factory Bump Stop. Install it back into the factory location on the Chassis, making sure the Superior logo is positioned in the up-right orientation facing outward. The hardware required is as follows: **1** x M8 x 1.25 x 50 Socket Head Bolt towards the front of the vehicle, and **1** x M8 x 1.25 x 45 Socket Head Bolt towards the rear of the vehicle. *Be sure to use Loctite on all the hardware to ensure none of the components will come loose. Refer to Figure 2 for visual guidance*
8. While you still have access to the chassis mounted Bump Stop Extension, torque the bolts down to the recommended torque settings outlined above.
9. Locate your Coil Bump Stop and install **1** x M8 x 1.25 x 50 Socket Head Bolt through the Bump Stop making sure the metal cup is still attached. *Refer to Figure 3 for visual guidance*
10. While holding the Bolt in the Bump Stop, install the Bump Stop Extension making it one assembly. *Refer to Figures 4 and 5 for visual guidance.*
11. Use an Allan Head to hold the bolt in place while you install the Bump Stop Assembly with the Superior Extension back into its factory location. Make sure the Superior Engineering Logo is facing upward. *Be sure to use Loctite on all the hardware. Refer to Figures 6 and 7 for visual guidance*
12. Double-check all fasteners and components to ensure everything is tightened to the recommended torque settings.
13. Repeat the same process for the other side.
14. Lower the vehicle and take it for a test drive. Monitor it's handling and check during slow articulation that the Bump Stops are engaging correctly. If any issues arise, recheck the installation steps. *Refer to Figure 8 for final fitment examples*

INSTALLATION INSTRUCTIONS

REFERENCE IMAGES

FIGURE 1



FIGURE 2

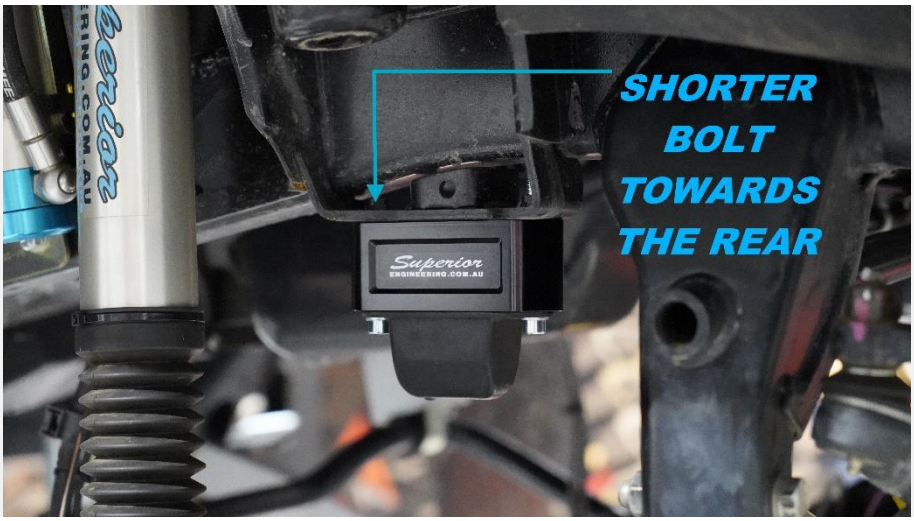


FIGURE 3



INSTALLATION INSTRUCTIONS

FIGURE 4



FIGURE 5



FIGURE 6



INSTALLATION INSTRUCTIONS

FIGURE 7	
FIGURE 8	

CONTACT DETAILS

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