

Superior **ENGINEERING** PREMIUM 4x4 ACCESSORIES



STST-A-LCR40

Superior Weld-On Extended Steering Stop Suitable for Toyota Landcruiser 300 Series (Kit) – Installation Instructions

IMPORTANT

Due to regulatory variations throughout Australia, it is recommended that prior to fitment of this part being carried out, confirmation from your local/ state transport authority needs to be obtained as to the correct welding procedure required for approval. Superior Engineering recommends that the minimum welding requirement must meet or exceed Australian Standard AS 1554 Structural steel welding. In general, for approval purposes, this part needs to be fitted by a certified welder who has performed and understands the correct welding procedure that is required and can supply required certification or paperwork as deemed.

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

WARNINGS

- Estimated installation time: 2-3 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.

PART(S) CHECKLIST

DESCRIPTION	QTY	IMAGE
10mm Weld-On Extended Steering Stop Suitable for Toyota Landcruiser 300 Series	2	
8mm Weld-On Extended Steering Stop Suitable for Toyota Landcruiser 300 Series	2	
6mm Weld-On Extended Steering Stop Suitable for Toyota Landcruiser 300 Series	2	

CAUTION

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

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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 the above parts checklist*
- BEFORE WELDING, ENSURE THAT A BATTERY ISOLATOR / SURGE PROTECTOR IS INSTALLED.**
3. Remove the front struts as per the vehicle workshop manual, then reassemble the front suspension so it can be cycled freely.
 4. With the wheels and tyres fitted to the vehicle, turn the steering wheel lock to lock. Stopping just before the tyres contact the inner guard.
 5. Cycle the vehicles suspension through its full range of motion while using a ruler to measure the space between the steering stopper on the lower control arm and the stopper on the steering knuckle. Use this as a guide to determine which thickness steering stop to begin with.
 6. Using a Scotch-Brite wheel and burr tool, clean the welding area to ensure proper weld penetration and adhesion. *Refer Figures 1 and 2*
 7. Spray a light, even coat of weld-through primer on the cleaned area. Allowing to dry according to the product manufacturer's recommendations before proceeding to tack welding.
 8. Position the selected steering stop (e.g. 6mm plate) flush on the cleaned section of the lower control arm. Use a clamp or vice grips to hold the plate in place, ensuring proper alignment with the steering knuckle stopper. Then apply small tack welds at opposite corners to hold it temporarily. *Refer Figure 3*
 9. Turn the steering wheel fully left and right, checking for any tyre contact with the inner guards, chassis rails, or bodywork. If interference still occurs, remove the tack-welded plate, re-prepare the area as needed, and repeat steps 5–8 using a thicker stopper plate from the kit.
- ENSURE MATCHED STEERING STOPS ARE USED ON BOTH SIDES. DO NOT MIX DIFFERENT THICKNESSES.**
10. Once the correct thickness is identified and tested, fully weld the steering stopper to the lower control arm, using short, controlled stitch welds to minimise heat input and reduce the risk of warping. Allow the welds to cool naturally, do NOT quench with water. *Refer Figure 4*
 11. After cooling, clean the area using a wire brush to remove slag or spatter and deburr all edges to eliminate sharp or uneven surfaces. *Refer Figure 5*
 12. Once the area is clean and smooth, apply a rust-inhibiting coating over the welds and surrounding area. Then use an automotive-grade paint to protect the bare steel from future corrosion. *Refer Figure 6*
 13. Apply a small amount of grease to the contact faces where the steering knuckle hits the newly installed stopper. This reduces noise during steering lock and minimises wear over time.
 14. Conduct a test drive at low speeds in a controlled environment, performing full lock turns in both directions. Listen for unusual noises and recheck clearance between the tyres and bodywork. *if any interference or issues arise during testing, stop immediately and re-inspect the installation Refer Figures 7 and 8 for final fitment examples*

REFERENCE IMAGES

FIGURE 1



FIGURE 2



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FIGURE 3



FIGURE 4



FIGURE 5



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FIGURE 6

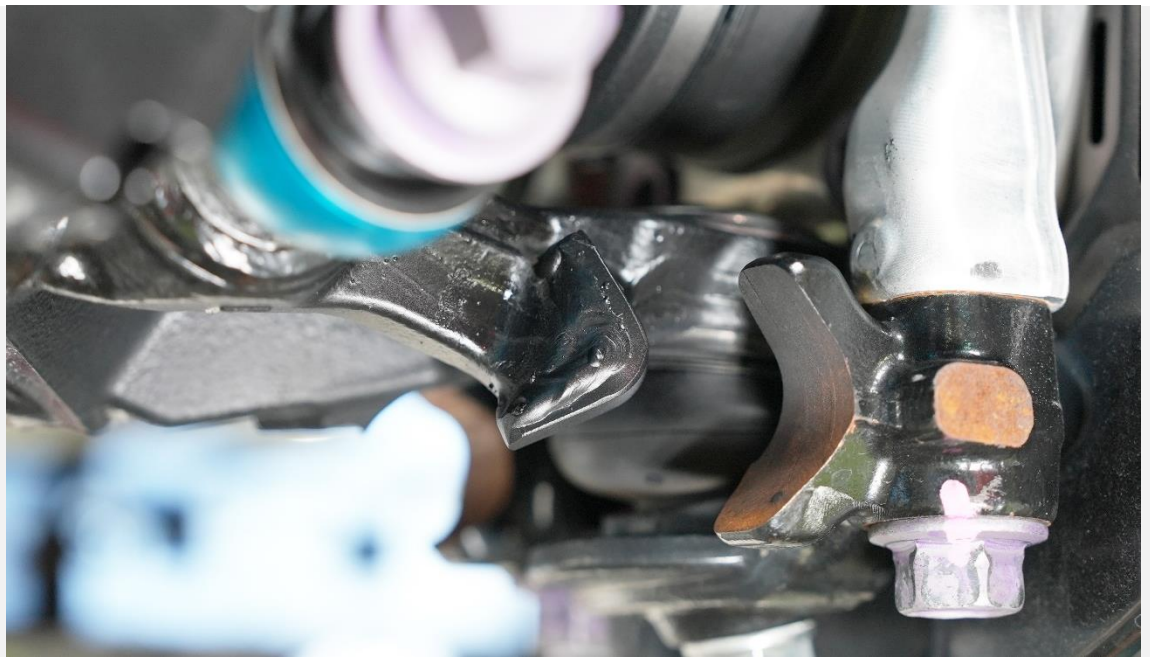


FIGURE 7



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FIGURE 8



CONTACT DETAILS

Superior Engineering
8 Chrome Court, Burpengary
4505 QLD Australia

(07) 5433 1411
sales@superiorengineering.com.au

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