

ART-146 Installation Instructions

Rear Axle Track Bar & Control Arm Bracket



1997-2006 Wrangler TJ



The SafeTCap® ART-146 is a replacement for the OEM track bar and rear upper control arm bracket mounted on the rear axle of the Wrangler TJ & LJ. This mount bracket was developed to fit a 2¾ inch diameter axle, and will work on larger diameter axles with welded filler. The ART-146 is welded directly to the axle after the old bracket is removed and the surface to be welded is prepared. The original bracket straddles the sway bar bracket, which is left in place. The ART-146 is made from 7 gauge HRPO steel, CNC cut, bent and MIG welded at our own factory. The hardware provided consists of an M12-1.75 x 80mm bolt and M12 weld nut to mount the track bar and an M10-1.5 x 75mm bolt and nut to mount the upper control arm.

ATTENTION: The SafeTCap® ART-146 is designed as an OEM replacement and is not designed to be used on modified or lifted suspensions. When ordering this part you may also be interested in the SafeTCap® ART-136 for the other end of the track bar.



[Patent Pending]

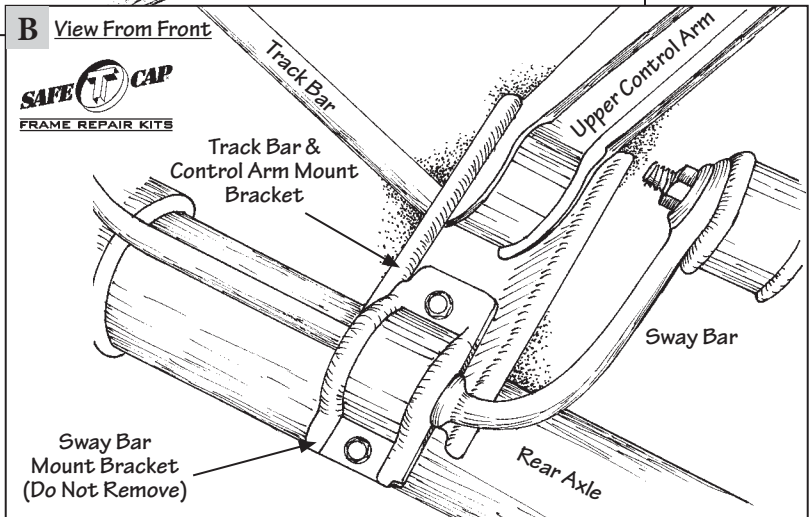
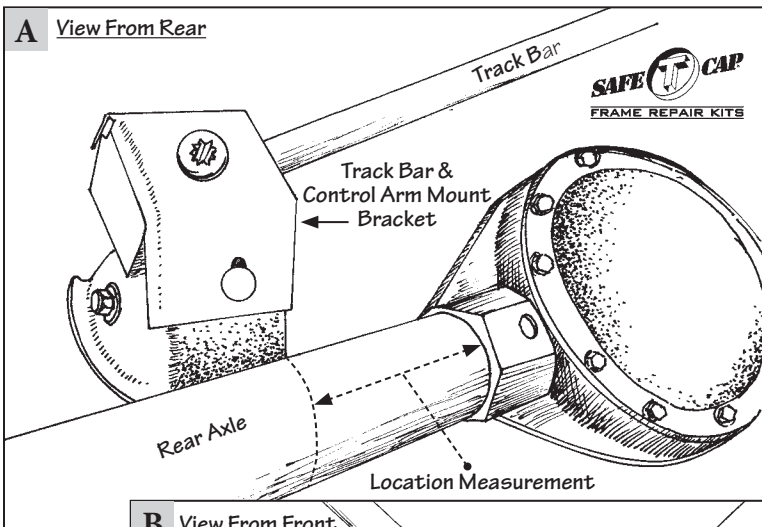
CAUTION! If you are not fully confident doing the installation yourself, have a professional welder install it, or at least have one inspect your repairs before you finish coat your SafeTCap® installation.

1. **IMPORTANT:** Read and understand the “General Instructions for Installing SafeTCap® Frame Repair Kits” before you begin.
2. Chock the front tires. Jack rear tires off the ground. Use jack stands placed directly on the frame forward of the lower trailing arm bracket.
3. Remove rear tires.
4. Take measurements from the original track bar bracket to a reference point on the axle to be used to locate the new track bar bracket. This mark can be made by the installer or you could use an existing object. A good example would be the differential housing on the axle. [Illustration - A] The OEM track bar and control arm bracket also straddles the sway bar bracket on the rear axle, this bracket is to be left on and will serve as a locator for the new ART-146. [Illustration - B]
5. Disconnect upper control arm from the mount bracket on the axle.
6. Disconnect the track bar from the mount brackets and remove. Cut if necessary, a new bar will have to be purchased.
7. Cut and remove the old mount, careful not to overheat. Keep a wet rag close by.
8. Grind area to be welded down to bare metal. >> Steps 9-19 on p.2

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9. Using the location measurements from step 4. Make location marks on the axle.
10. Place the new SafeTCap® ART-146 bracket on the marks and temporarily reconnect the track bar and upper control arm.
11. If the fit is correct tack weld bracket.
12. Remove track bar and upper control arm.
13. Weld bracket solid.
14. Paint or coat repair.
15. Reattach track bar and upper control arm.
16. Remount tires.
17. Lower to ground.
18. Test Drive
19. Inspect repair after test drive, check repair and bolt tightness frequently.



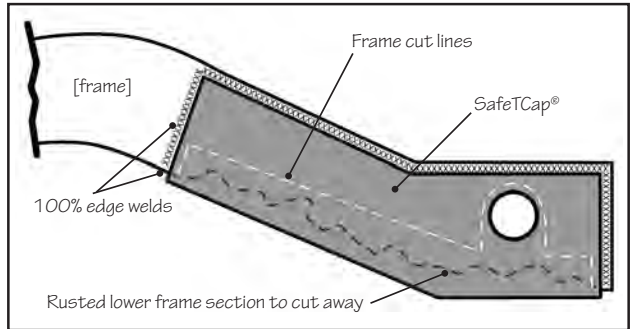
General Instructions for Installing SafeTCap® Frame Repair Kits

General automotive welding safety, metal preparation, and frame repair guidelines to achieve long-lasting results – safely.

Attention! For your safety follow all instructions. Failure to follow instruction may result in property damage or serious or fatal injury. User assumes all liability.

EQUIPMENT LIST

- Jack Stands/Ramps/Lift
- Quick Line Disconnect
- Eye & Ear Protection
- Work Gloves
- Fire Extinguisher & Water
- Cutting Wheel or Torch
- Grinder or Sander
- Locking Pliers or Clamps
- Welder: Mig or Stick
- Paint & Undercoat



VEHICLE PREPARATION

1. Disconnect the battery.
2. Check for fuel leaks; tank > lines > engine.
3. Repair or replace any leaky fuel lines before proceeding any further.
4. If the fuel tank leaks, remove it before, repair/replace after installation is complete.
5. Remove fuel tank if within 24" of the welding/repair area.
6. Keep flammable materials at least 20' from the vehicle.
7. Remove interior panels, seats, padding and carpets in the cabin area above work area.
8. Keep a fire extinguisher and water hose close by, use water for any fabric fires.
9. ALWAYS use a Fire Watch Person when cutting or welding on a vehicle. In case of emergency, call 911 immediately.

WELDING & SAFETY

1. Take safety precautions by wearing eye protection, gloves, sturdy boots, etc.
2. "Stick" or "arc" welding is difficult for some, but capable of producing a sound weld. For best old/new metal results, use 6011, 3/32", or 1/8" welding rods.
3. "MIG" welding produces a very sound weld. At Auto Rust Technicians we use 220v units with .035 wire (ER70S-6) with a 75% Argon/25% CO2 gas mixture.
4. Quality welds require clean surfaces; so grind, scrape or wire brush surfaces to be welded – the minimum frame temperature for welding is 50°.
5. Weld kit in place using 1/2" to 1" long beads every 1", then weld seams solid.
6. If in doubt about the techniques, equipment and skills needed for a safe and successful installation call (800)407-7024 for an appointment to install your kit at our Cranston, R.I. location, or to obtain a list of installers near you.

> continued on page 4

General Instructions (con't.)

INSTALLING THE NEW FRAME KIT

1. If you are installing a right/left pair, repair one side at a time, keeping a reference/measuring point.
2. Support vehicle completely over a solid, level floor. Use good quality, weight-rated, safety jack stands, ramps or ideally – a hydraulic lift.
3. Most of our kits are designed to slip over the original frame after the bottom of the frame rust is cut back, and then welded in place. This helps duplicate the original dimensions, and location points, which can be lost if sections are completely removed. This overlapping SafeTCap® technique is the way we have been successfully repairing frames for over 40 years, providing superior strength while allowing you to complete the job safely and quickly.
4. The bottom of the frame must be cut off and area ground to clean metal – at least half way up the frame. With this method the frame rust is not contaminating your new frame section. The minimum remaining can be no less than 1/2" of the original frame for the SafeTCap® kit to overlap and perform as designed. Measure, fit, measure, then tack weld SafeTCap® at key points, the final installation requires complete 100% edge welding, with an assistant acting as a Fire Watch.
5. Some frames have brackets, bumps, stops, etc. that need to be cut off and reused in order to complete the installation. Drill out the factory spot welds on these for cleanest removal.
6. Once welding and wire brushing is finished, brush or spray primer, then paint or undercoating.
7. Inspect the repair yearly.

SAFETCAP® ONE YEAR LIMITED WARRANTY

What Does This Limited Warranty Cover?

This warranty covers any SafeTCap® product defect or malfunction in your new frame repair component.

How Long Does The Coverage Last?

This warranty lasts one (1) year from the date of purchase and is nontransferable.

What Will SafeTCap® Do?

SafeTCap® will replace any defective part at no charge. You must pay shipping and all labor charges to remove and reinstall the defective part.

What Does This Limited Warranty Not Cover?

This limited warranty applies to the SafeTCap® frame repair components only, and covers any defects in materials and workmanship on the component. SafeTCap® is not responsible for product failure due to improper installation, or installation on modified frames and vehicles with non-standard retrofitted suspensions. SafeTCap® is not responsible for the quality of the

installation, or for any issues that may arise beyond the scope of repair for which the part was intended.

Consequential and incidental damages are not recoverable under this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

How Does State Law Apply?

This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

How Do You Get Warranty Service?

In order to be eligible for service under this warranty, you must return the SafeTCap® registration card provided, within 30 days of receipt. You may also register your SafeTCap® online at www.safetcap.com. To obtain warranty service, please call us toll free at 1-800-407-7024.



We Make it Easy to Make it Safe!

SafeTCap®

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(USA)

SafeTCap® products are designed and developed by SafeTCap Inc. in response to hundreds of vehicles that have required frame rot repairs. All kits/parts have been developed, manufactured, tested and installed at our Cranston, Rhode Island, USA facilities.

We accept returns within 30 days of receipt of product. Buyer pays return shipping and is subject to a 10% RESTOCKING FEE. To return an order customers need to call 1-800-407-7024 to obtain a RETURN AUTHORIZATION NUMBER. We do not accept returns that have been modified or altered, in any way, from the factory shipped component.

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