

ART-129 Installation Instructions

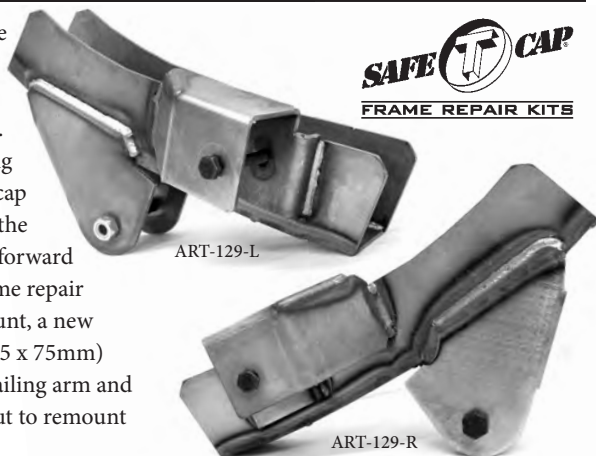
Rear of Front Frame Kit



1997-2006 Wrangler TJ



The ART-129 SafeTCap® repairs the frame of the Wrangler TJ where the front lower trailing arm mount, front upper trailing arm mount and motor mount are located. The ART-129 kit is approximately 16" long with 3-3/8" side walls and is designed to cap over the existing frame. The kit begins at the front of the tub body mount and ends 8" forward of the lower trailing arm mount. This frame repair comes with a new upper trailing arm mount, a new lower trailing arm mount and an (m10-1.5 x 75mm) bolt with weld nut to mount the upper trailing arm and an (m14-2.0 x 100mm) bolt with nyloc nut to remount the lower trailing arm.



SAFE TCAP
FRAME REPAIR KITS

[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.

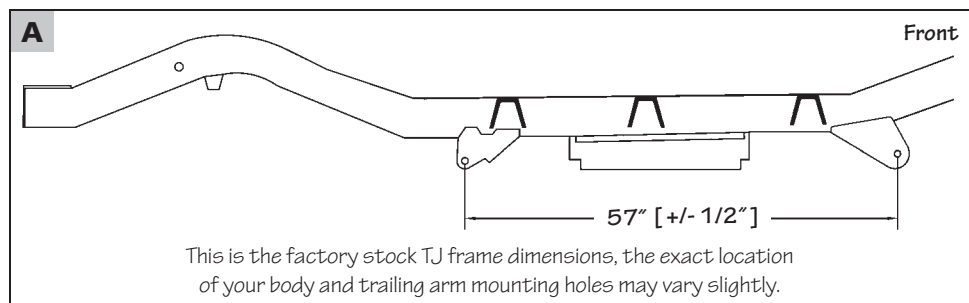
1. **IMPORTANT:** Read and understand the "General Instructions for Installing SafeTCap® Frame Repair Kits" before you begin.
2. Jack up the front end of your Jeep and support it on quality jack stands. Chock the rear tires.
3. Remove the front wheel on the side to be repaired. Take measurements from lower trailing bolt center in front to lower trailing arm bolt center in rear, write it down.
4. Disconnect front upper and lower trailing arms on the side to be repaired. Repair one side at a time.
5. Remove the upper trailing arm mount. Use a plasma cutter, acetylene torch, Sawzall®, or cutting disc.
 - a) **4 Cylinder Models** require the motor mount to be separated from the upper trailing arm mount first, before cutting off the original trailing arm mount. On the passenger side the ART-129 will have to be notched to fit around the motor mount.
 - b) **6 Cylinder Models** require the bottom weld of the exhaust manifold hanger bracket to be cut and the bracket pulled out away from the frame.
6. Cut and remove the rusted area of the frame allow 1" overlap for welding. [See General Instructions Illustration - Page 3]
7. Test fit your ART-129 by sliding it over the frame.
8. Check your measurements. [Illustration - A]
9. Check the position of the trailing arm mounts by connecting the trailing arms temporarily.
10. Remove the ART-129 after disconnecting the trailing arms.
11. Prep the area to be welded; clean and grind the area to be welded down to bare metal. Clean surfaces produce stronger welds.
12. Place the new ART-129 in position.
13. Re-measure. [Illustration - A]

> Steps 14-25 continued on page 2

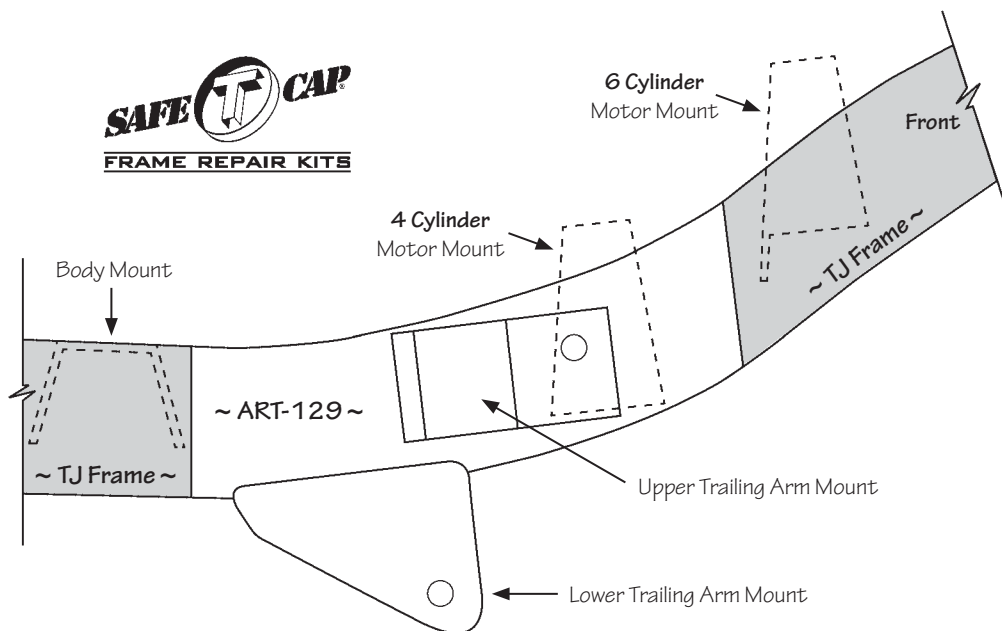
ART-129 Installation Instructions (con't)

Rear of Front Frame Kit • 1997-2006 Wrangler TJ

14. Test trailing arm mount location (upper and lower). When satisfied with fit, tack weld ART-129.
15. Next for Jeep TJ ...
 - a) **4 Cylinder Models:** Re-weld motor mount.
 - b) **6 Cylinder Models:** Re-weld manifold bracket.
16. Weld entire perimeter of the new ART-129
17. Paint or coat your new frame parts.
18. Reconnect upper and lower trailing arms.
19. Remount front wheel and torque wheel nuts to factory ft. lbs. specifications.
20. Lower to ground.
21. Recheck all bolts.
22. Your Jeep is now SafeTCap® safe.
23. After any frame repair, you may need a front end alignment to achieve factory spec. handling.
24. Check all bolts after 1 day, and then monthly.
25. Happy Trails!



Start by measuring the distance between mounting bolt hole centers of the front and rear trailing arm mounts, be as accurate as possible and record for exact fit. This measurement is key for factory correct alignment of your new SafeTCap® and proper suspension performance.



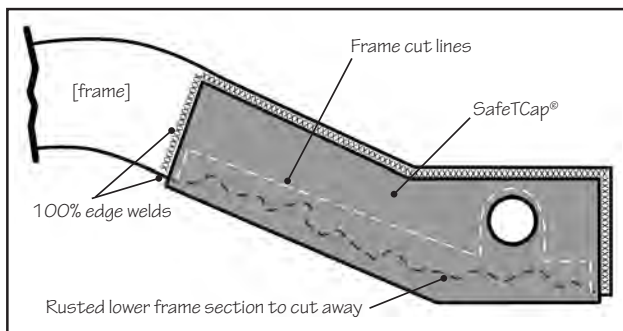
General Instructions for Installing SafeTCap® Frame Repair Kits

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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www.safetcap.com

(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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