



“Master Your Terrain”

(307) – 775 – 9565

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OUT BOARD SHOCK KIT TJ/LJ/YJ WRANGLER

Installation Instructions:

Thank you for purchasing TNT OUTBOARD SHOCK KIT for your Jeep Wrangler. Please observe proper shop safety procedures when performing this install. Use proper eye and hearing protection as required and use safe jack stands/supports, placed appropriately for supporting the vehicle while you work on it if needed. We recommend pre-fitting all parts before painting them. **(if using factory axles we suggest using Wizard Brackets - Reverse TJ Style Parking Brake Cables)**

Items needed for install

- 24x14 construction square
- Grinder with cut off disk
- Welder

Preinstall instructions

Before installing you outboard shock kit make sure your axle is positioned in the middle of the wheel well opening and center between the passenger and driver side

STEP 1:

Begin by raising the rear of the vehicle, removing the tires and unbolting the shocks. Using jack stands place the vehicle back to ride height.

STEP 2:

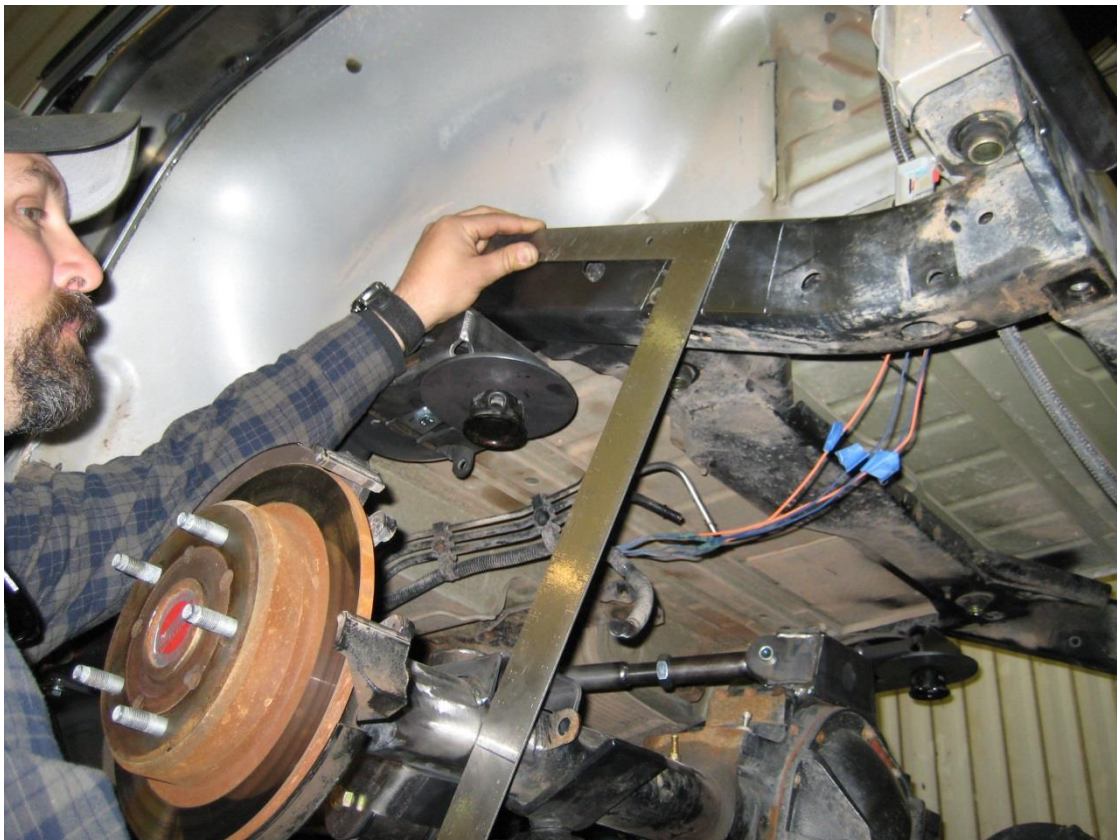
Using a 24 x 14 construction square place the short end on the downward slope of the frame as shown in **figure 1**

Figure 1



STEP 3:
Slide the construction square forward on the frame until it hits the axle as shown in **figure 2**.

Figure 2



STEP 4:

Using the rear edge of construction square mark a line on the frame the follows the same angle as the construction square as shown in **figure 3**.

Figure 3



STEP 5:

Using a measuring device mark the center line of the frame bracket on the inside. Using the slot in the frame bracket align the centerline of the bracket with the line on the frame as shown in **figure 4**. Once the bracket is in the correct position, mark the frame using the outside edge of the bracket as shown in **figure 5**.

Figure 4



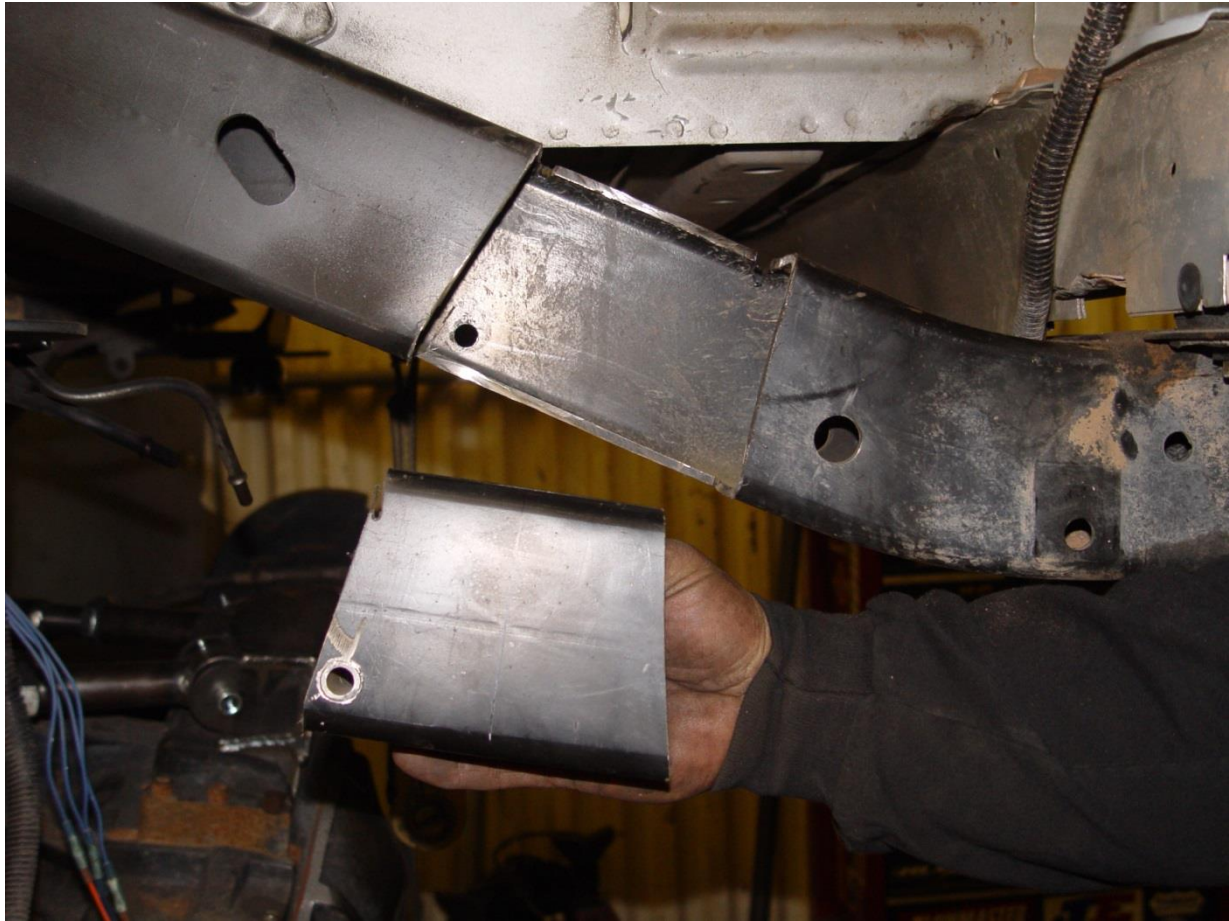


Figure 5

STEP 6:

From the back edge of the frame on the top side measure $3/8$ " out and draw a line as shown in **figure 5**. The $3/8$ " flange will slide into the slot in the back of the frame bracket. Begin cutting the frame for the bracket. cut inside your lines and then trim to fit for the bracket. The bottom of the frame should be cut flat with the back side. **Figure 6** shows what the frame will look like when the piece is cut out.

Figure 6



STEP 7:

With the frame bracket in position and flush against the frame, tack the bracket in place. Start welding the slot on the inside of the bracket first. After the slot is fully welded on the top and bottom, finish welding the rest of the bracket to the frame. Figure 7 shows the finished piece.

Figure 7



STEP 8:

Repeat steps 1 through 7 on the other side of the vehicle before proceeding to step 9

STEP 9:

For the next couple of steps the coil springs and rubber bump stops will need to be removed so that the coil spring mounts are touching metal to metal. Install current shocks in the upper mount and bolt the lower mount on to the shock. Align the inside edge of the lower mount with the outside edge of lower control arm. Before tacking the lower shock mount in place make sure that none of the rod is showing from the shock body. Before fully welding the lower mount take measurements for new proper length shocks. Measure each side fully collapsed and fully extended. Both measurements are very important, fully collapsed keeps the shock from bottoming out at full bump and fully extended keeps the springs seated properly in the coil bucket. Install the new shocks and cycle the suspension to make sure the shock body doesn't crash in the outboard shock frame bracket.

NOTE: If the shock does crash into the frame bracket reposition the lower mount until there is no longer contact.

Appendix A**Parts List:**

- 1 - Drivers side outboard shock mount.
- 2 - Passenger side outboard shock mount.
- 3 - (2) shock axle mounts

Hardware Kit:

- 1 – (2) 1/2” x 5” bolt
- 2 – (4) 1/2” washers
- 3 – (2) 1/2” Nylock Nuts
- 4 – (2) 12 mm bolt
- 5 – (4) 12 mm washers
- 6 – (2) 12 mm Nuts

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