



INSTALLATION INSTRUCTIONS

2022-2023 F150 Raptor Rear Sway Bar



Component Contents

Number	Part Name	Quantity
1	Sway Bar	1
2	Driver-Side Saddle Bracket	1
3	Pass-side Saddle Bracket	1
4	Clevis Bracket	2
5	U-Bolts	2
6	5" End-Link	2
7	Wired Nut Plate	2
8	D-Bushings	2
9	U-Plate	2
10	Hardware Kit	1
11	Instruction Sheet	1

Hardware Components

Number	Part Name	Quantity
1	1" Collar Clamps Set	1
2	Hourglass Bushings	4
3	Endlink Sleeve	4
4	1/2-20 x 1 1/4"	2
5	1/2-20 x 2 3/4"	4
6	1/2-20 Lock Nut	8
7	1/2" Washer	12
8	Threadlock	4
9	Bushing Lube	1
10	1/2-20 Hex Nut	8

General Notes:

These instructions are meant to be a general guide for installing Hellwig Products Co. sway bars. Hellwig Products Co. Inc. assumes no liability for the actual installation process. Consumers should apply common automotive safety practices when working on any vehicles. DO NOT put yourself in a position where if the vehicle should move unexpectedly, you may be seriously hurt.

Hellwig suspension products are designed for ease of installation with standard tools. However, access to a jack, jack stands, and work lights may provide added assistance during your installation. As described in Hellwig installation instructions, many fasteners require proper tension or torque. Use of a torque wrench will verify proper torque for this requirement.

- To ease installation and to properly adjust bar, the weight of the vehicle must be on the suspension, as if driving down the road. Do not Raise Vehicle by frame.
- If raising the vehicle off the floor to install the anti-sway bar, always fully support the vehicle with jack stands. Ensure that the jack stands are securely positioned, and are rated at or above the weight of the vehicle.
- Don't forget to lube all bushings and end links.
- Always use impact grade sockets with air ratches or impact drivers.
- Holes Are Producing an Interference – Apply torque to the nut.
- Nut and Bolt Head are Different Diameters or Shapes – Apply torque to the side with the smaller bearing face. This also applies when the hole diameters are different.
- When Clamping Two Different Materials Together – It is always better to apply torque on the component that is against the material with a lower frictional coefficient.
- Long Bolts Are Being Used – When torque is applied to the head of a very long bolt, you may see the effects of torsional wind-up. Applying torque to the nut in this situation will help to avoid that issue.
- There will be many instances where you can apply torque to either the nut or the bolt head. But if one of the above situations applies, remember to follow the guidelines for a better fit and more durable installation.

Standard Tools:



Ratchet



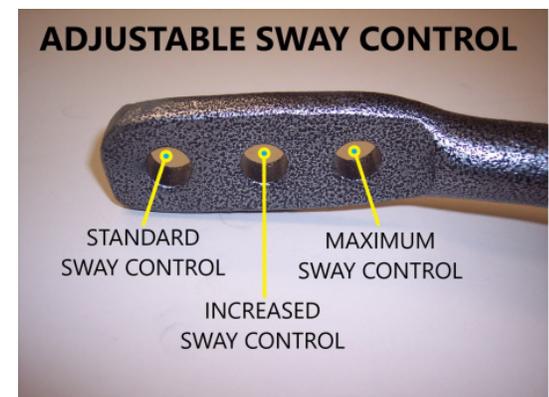
Standard Ratchet Set

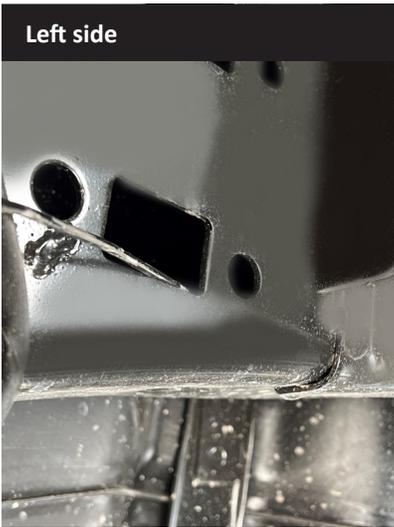


Standard Deep Socket Set



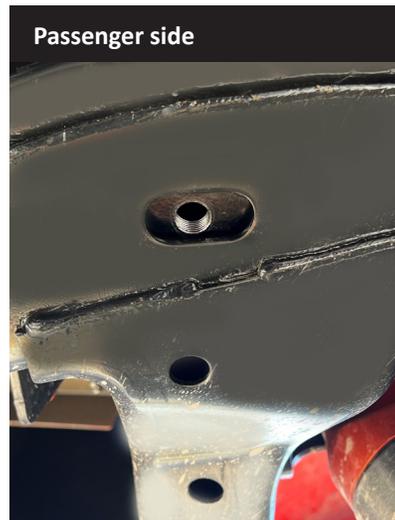
Torque Wrench





Step 1:

Locate rectangular frame hole found on the left- and right-hand side of the vehicle. Feed the nut plates with the supplied wire inside the frame through the rectangular hole as shown. Do not allow wire to fully enter the frame.



Step 2:

Align the inserted nut plate with the oval holes on the bottom of the frame.

Step 3:

Install the end link clevis brackets to the nut plates utilizing the supplied $\frac{1}{2}$ " bolts and washers and a $\frac{3}{4}$ " socket. Align bracket parallel with frame rail and torque to 65 lb/ft.



Step 4:

End link Construction: Insert hourglass bushing into each of the end of the link. A light amount of bushing lube may be needed to insert bushings. Once the bushings are centered within links, insert the supplied bushing sleeves. A vise and lube may help overcome the initial friction of the bushing.



Step 5:

Install the end link into the clevis buckets utilizing the 2 3/4" length 1/2" bolts, washers and lock nuts. Allow to hang freely. Wait to torque following the remainder of the installation.



Step 6:

Insert sway bar over the axle gently and connect each end to the end links utilizing the 2 3/4" length 1/2" bolts, washers and locking nuts. End link should be placed on the outside of the bar. It is recommended that the bolt be hand tightened to ease the remaining installation.



Step 7:

Lubricate bushing with supplied bushing lube. Generously ensure entire inner surface of bushing is coated. Install on sway bar.

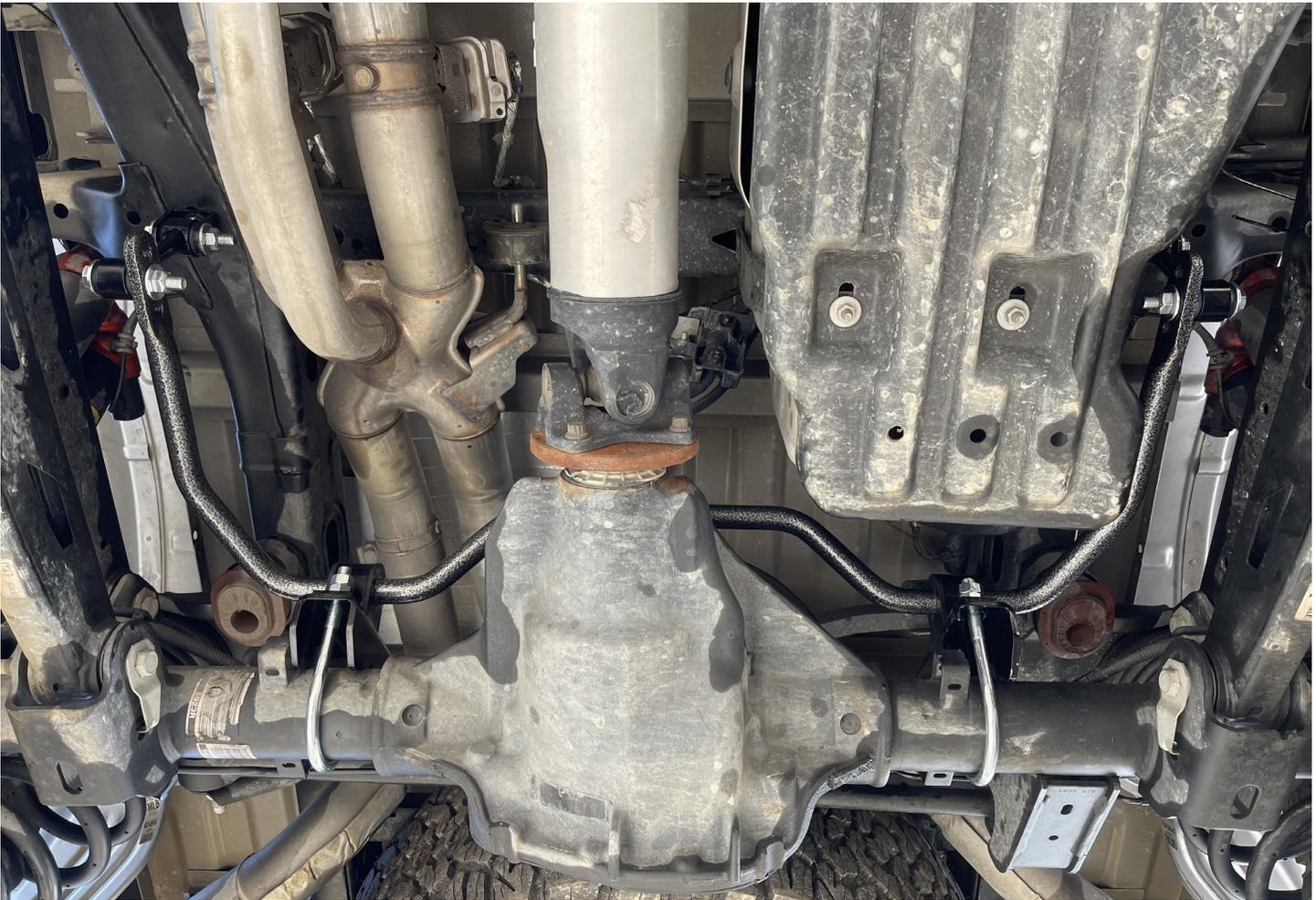
Step 8:

Locate axle saddles on either side of the differential near the welded factory tabs. Lock nuts and Double Hex nuts are provided for your installation preference.

Note: The saddle with the notch shall be installed on the driver's side axel tube against the factory tab.

Note: It may be necessary to reroute factory cables for correct saddle positioning.





Step 9:

Align sway bar and center on axle. Ensure that the end links are vertical, and the sway bar arms are roughly parallel to the ground. Install collar clamps on the outside of the sway bar against the sway bar bushing.

Step 10:

Tighten and torque installed hardware to proper torque specs as listed below.

Location	Nm	Lb-Ft
End link - Bracket	75	56
End link – Sway Bar End	75	56
U-Bolts	75	56



1. **Fasteners**

All Hellwig supplied fasteners must be utilized and installed in accordance with the installation instructions and apply torque to the specifications as defined.

2. **Modification**

Do not attempt to modify the vehicle or the Hellwig product you are installing. If a problem is encountered, stop and call Hellwig Products (1-800-367-5480) for support. Hellwig Products Company will not be responsible for any damage or injury resulting from any modification or alteration. Do not use this document for custom fabrication, as it may not show all parts or structural components.

3. **Drilling**

Most Hellwig products do not require drilling and or tapping for installation. If drilling is defined as required, use caution when drilling a vehicle. Failure to review an area to be drilled, may result in personal injury and/or injury to other as well as vehicle damage.

4. **Eye Protection**

Always wear safety glasses or goggles during the installation process to avoid personal injury.

5. **Maximum Towing/Carrying Capacity**

User should never exceed the vehicle manufacture's maximum tow and weight rating. Failure to follow these guidelines will void the Hellwig warranty and may result in personal injury and/or injury to others as well as vehicle damage.

6. **For California Residents Only– Prop 65 Warning**

Some products may contain chemicals such as DEHP, which can cause cancer, birth defects or other re-productive harm. For more info go to www.p65warning.ca.gov

7. **Checks After Install**

After installing your new Hellwig sway bar it is recommended to bounce the vehicle, check for clearances, turn the steering wheel lock to lock, and if all looks good test drive the vehicle. Check the fasteners regularly thereafter. Ensure no damage is being done to the sway bar or your vehicle.