



Product:

aFe Control Sway Bars

Part Numbers:

440-302001-N

Applications:

2016-2018 Ford Focus RS

Contents in the box: 440-302001-N (F&R Set)

Qty	Part #	Description
1	P2506-N	Front Sway Bar
1	P2507-N	Rear Sway Bar
1	P2506-HK	Front Bushing Package
1	P2507-HK	Rear Bushing Package

Difficulty of Installation: Beginner |-----x-----| **Advanced**

Reason: This installation requires the lowering of the front sub frame, and is best performed on a 2 post lift. Installation also involves disconnecting steering, and main chassis bracing. Professional installation recommended.

Expected Installation Time: 5 Hours

Recommended Tools:

- Metric Wrench Set
- Metric Socket Set
- Metric Allen Wrench Set
- Impact Driver
- 3/8" drive Torque Wrench
- 2 Post Lift and Screw Jack (preferred)
- Transmission Jack

This procedure is best performed on a vehicle lift by qualified mechanics, while it is possible to install these sway bars using a floor jack and jack stands, it is not recommended.

Tech Tip: WD40 is very effective at removing the tacky grease applied to the bushings, use it on surfaces not intended to have grease such as your hands and tools.

Front OEM Sway Bar Removal

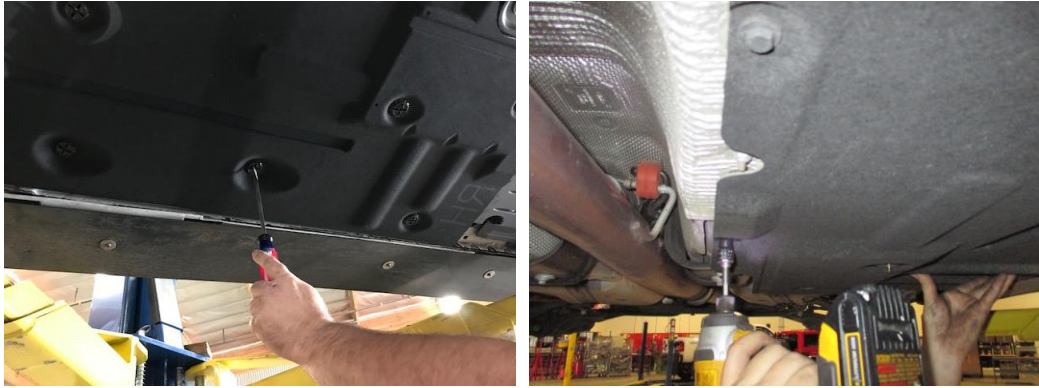
1. Using proper jacking points and a 2 post lift, raise the vehicle in the air.
2. Remove the front wheels.
3. Remove the engine under tray, by removing the screws and plastic rivets that secure it to the vehicle.



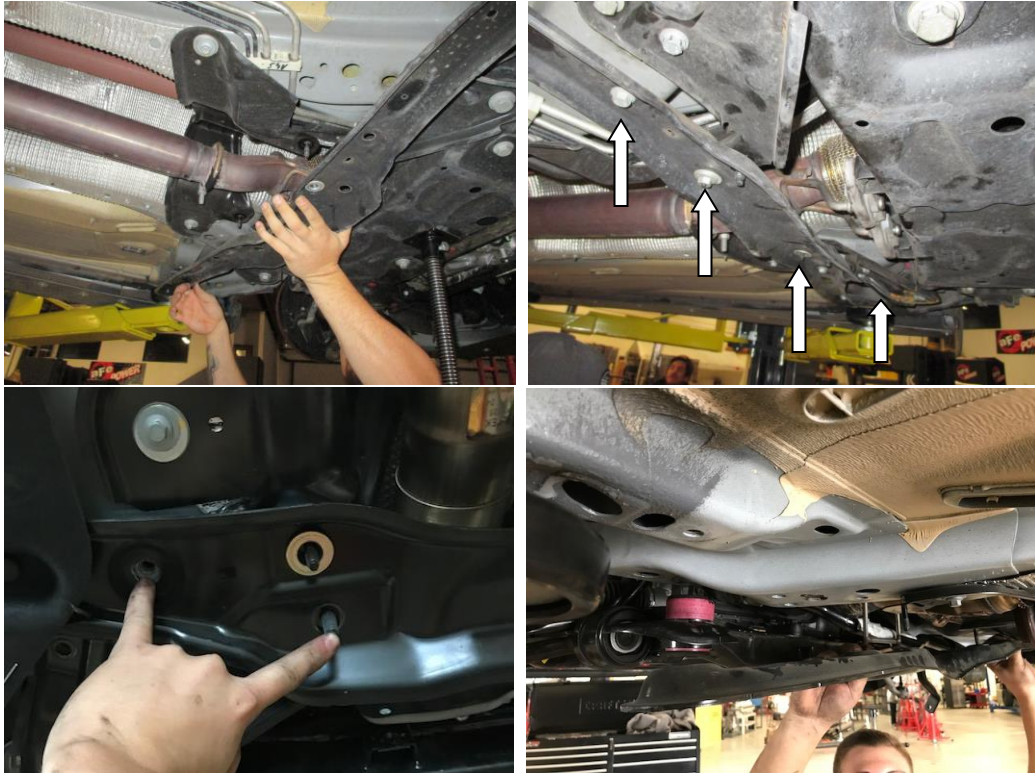
4. Use a 15mm wrench and 5mm Allen to loosen both left and right front end links at the OEM sway bar.



5. To gain access to the rear subframe brace attachment points, remove the plastic rivets that secure the side underbody covers. You will only need to access the forward portion by pulling down on the cover.



6. Remove the rear main subframe brace by removing the four nuts and bolts that secure it to the vehicle.



7. Loosen and remove the bolts that secure the forward sub frame brace



8. Loosen and remove the two bolts that secure the exhaust hanger to the subframe.



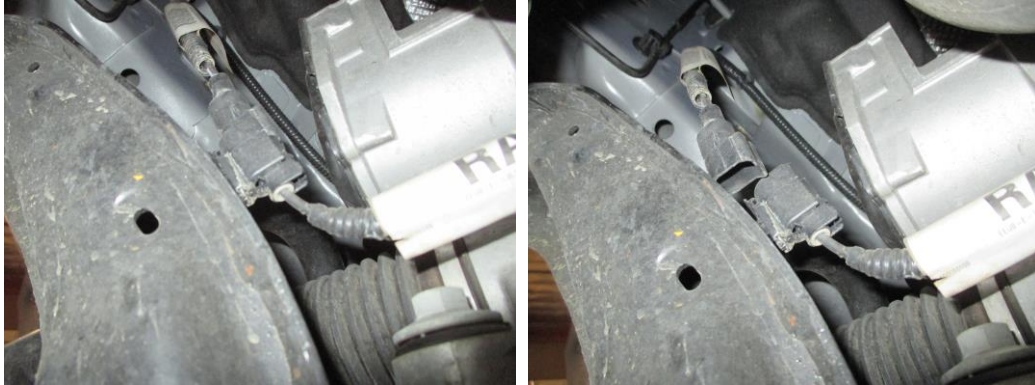
9. Loosen and remove the left and right side subframe brackets by loosening and removing the bolts that secure them in place.



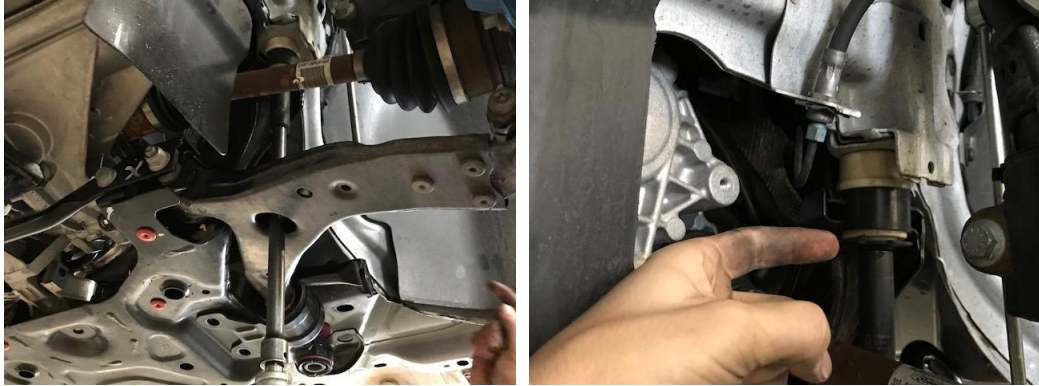
10. Loosen and remove the bolts that secure the transaxle to the sub frame. OEM mount may differ from photo, aftermarket mount shown on vehicle.



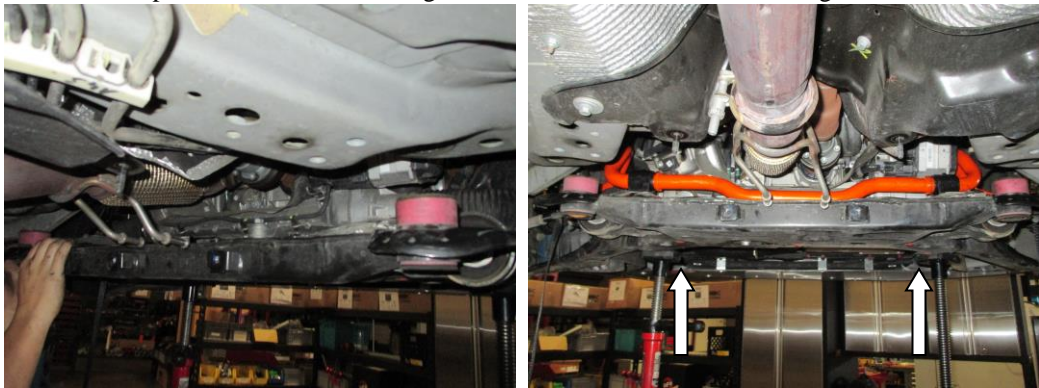
11. Disconnect the electrical connection for the steering rack by unclipping the wire located on the passenger side. You will also need to unclip the wire harness on the driver side to prevent stretching the wires as the sub frame is lowered in future steps.



12. Using a screw jack, support the subframe, then remove the left and right side forward sub frame bolts. We chose to place the screw jack forward on the subframe near the lower control arms, this is helpful in the next step.



13. Slowly lower the subframe, be careful to ensure that you are not binding on anything and that all electrical connections and lines are free and not under tension. We were able to achieve this step by rotating the subframe back, and not completely dropping it from the vehicle. In this step be careful not to pull too far, as the steering rack is still connected to the steering shaft.



14. Alternate method to step 13. Remove the 3 bolts that secure the steering rack to the subframe. Using a ratchet strap secure the tie rods to the strut assemblies. This will keep them in place during the next step as the sub frame is lowered. Failure to do this could cause damage to the steering.



15. With the subframe lowered, you can now access the bolts that secure the sway bar bushing brackets to the subframe. Remove the bolts.
16. Now you will be able to remove the factory bar by lowering out of the subframe.



17. Before removing the brackets, take time to note the orientation of the OEM brackets, the holes are offset and this orientation will need to be followed upon reinstallation.

Front aFe Control Sway Bar Installation

1. Apply the supplied grease to the inner surface of the supplied urethane bushings. Reinstall the bushings onto the new bar by opening the slit and slipping over the bar.



2. Reinstall the new sway bar by raising into the sub frame, in the pictured orientation.



3. Reinstall the OEM brackets, carefully noting the correct orientation, as the holes are offset. Reattach the mounting hardware, and tighten bolts. Reinstall the OEM end links to the new bar, in the same orientation as removed from the OEM bar. Proper placement would put the end link on the outside of the bar, and the nut on the inside.



4. You can now raise the subframe back up into position. Be careful to make sure nothing is binding or pinching. You can use a pry bar to help align the subframe bolts. **Do not fully tighten bolts yet, just snug to hold position.**



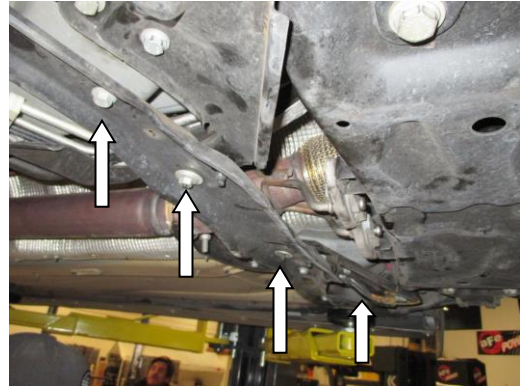
5. You can now reinstall the forward subframe bolts. Since some final adjustment will be done when you reinstall the braces, these **bolts only need to be snug at this time, do not completely tighten.**



6. If removed in step 14 of disassembly, secure the steering rack by reattaching the 3 OEM bolts as removed.
7. Secure the rear subframe, by re-attaching the left and right brackets. Shift subframe as required to keep everything aligned. Go back and torque the previously snugged subframe fasteners.



8. Reinstall the rear main subframe brace.



9. Re-attach the rear exhaust hanger bracket to the subframe.



10. If removed in previous steps, re-connect the electrical connector to the steering rack.



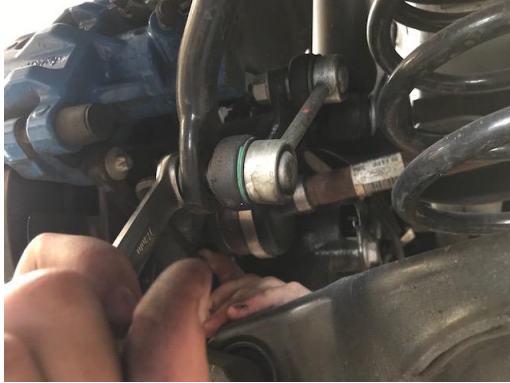
11. Re-secure the bracket that holds the transaxle bracket to the subframe.



12. Re-secure the front subframe brace.
13. Reinstall all underbelly fasteners and underbody covers after verifying all connections and bolts are secured.
14. Double check all your work and re-install wheels torquing to proper values.

Rear OEM Sway Bar Removal

1. Using proper jacking points, lift and support the rear of the car on jack stands.
2. Remove the wheels.
3. Disconnect the OEM rear sway bar end links on both sides of vehicle.



4. Remove the driver's side heat bushing bracket heat shield.



5. Remove the OEM bushing brackets on both sides of vehicle.
6. Slide the OEM sway bar out the driver's side through the opening in the subframe support bracket. An alternate method would be to remove the support brackets from vehicle and drop sway bar out the bottom.



Rear aFe Control Sway Bar Installation

1. Slide the sway bar back through the driver side subframe support bracket by rotating bar downward.



2. Reattach the OEM sway bar bushing brackets and heat shield.
3. Re-attach OEM end links to new sway bar in desired position. The hole furthest in is stiffer, furthest out is softer.
4. Double check all your work and re-install wheels torquing to proper values.

When all work is complete take the vehicle to alignment shop for a proper wheel alignment.



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