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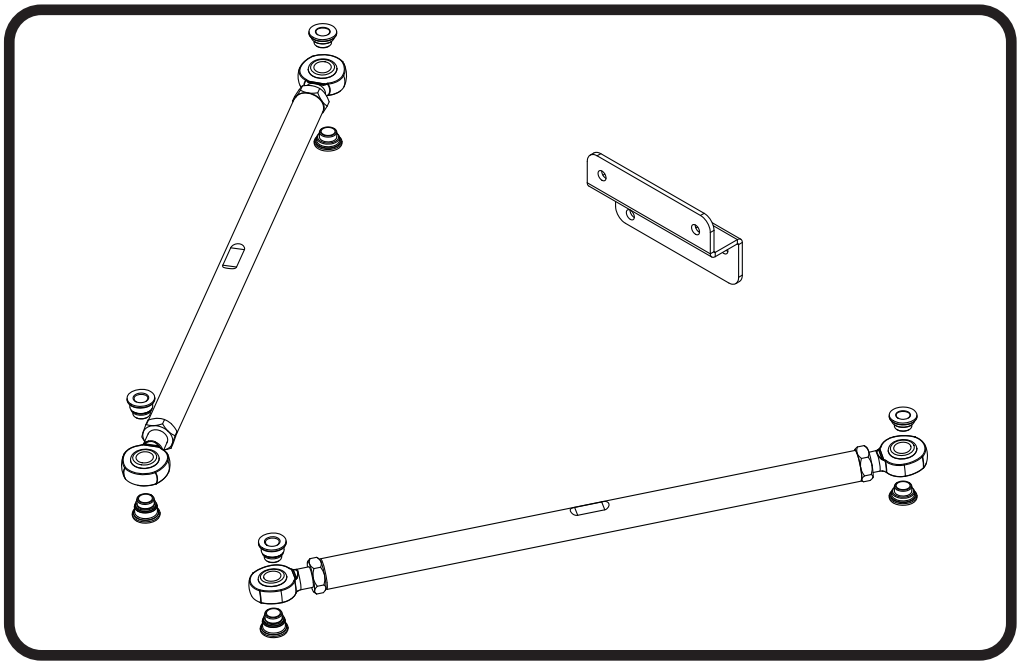
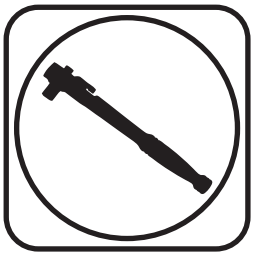
Installation Instructions

Part # 11397299

1982-2003 S10/S15 Rear Bolt-On Wishbone V8 UPGRADE Kit



Recommended Tools



1982-2003 S10/S15 Upgrade Kit

Installation Instructions

Table of contents

THIS BRACE KIT REQUIRES THE RIDETECH WISHBONE SETUP THAT IS EQUIPPED WITH THE PROVISIONS FOR THE BRACE BARS. IT WILL HAVE 2 BAR MOUNTING POINTS ON THE FRONT WISHBONE MOUNT AND 2 MOUNTS ON THE FRONT SIDE OF THE SHOCK CROSSMEMBER. IF YOUR WISHBONE KIT DOES NOT HAVE THE PROVISIONS, THIS KIT WILL NOT WORK. THE EASIST WAY TO TELL IF YOUR KIT IS SETUP FOR THE BRACE BARS, THE FRONT WISHBONE PIVOT BOLT NEEDS TO BE VERTICAL. IF THE PIVOT BOLT IS HORIZIONTAL, THIS KIT WILL NOT FIT.

R-JOINT

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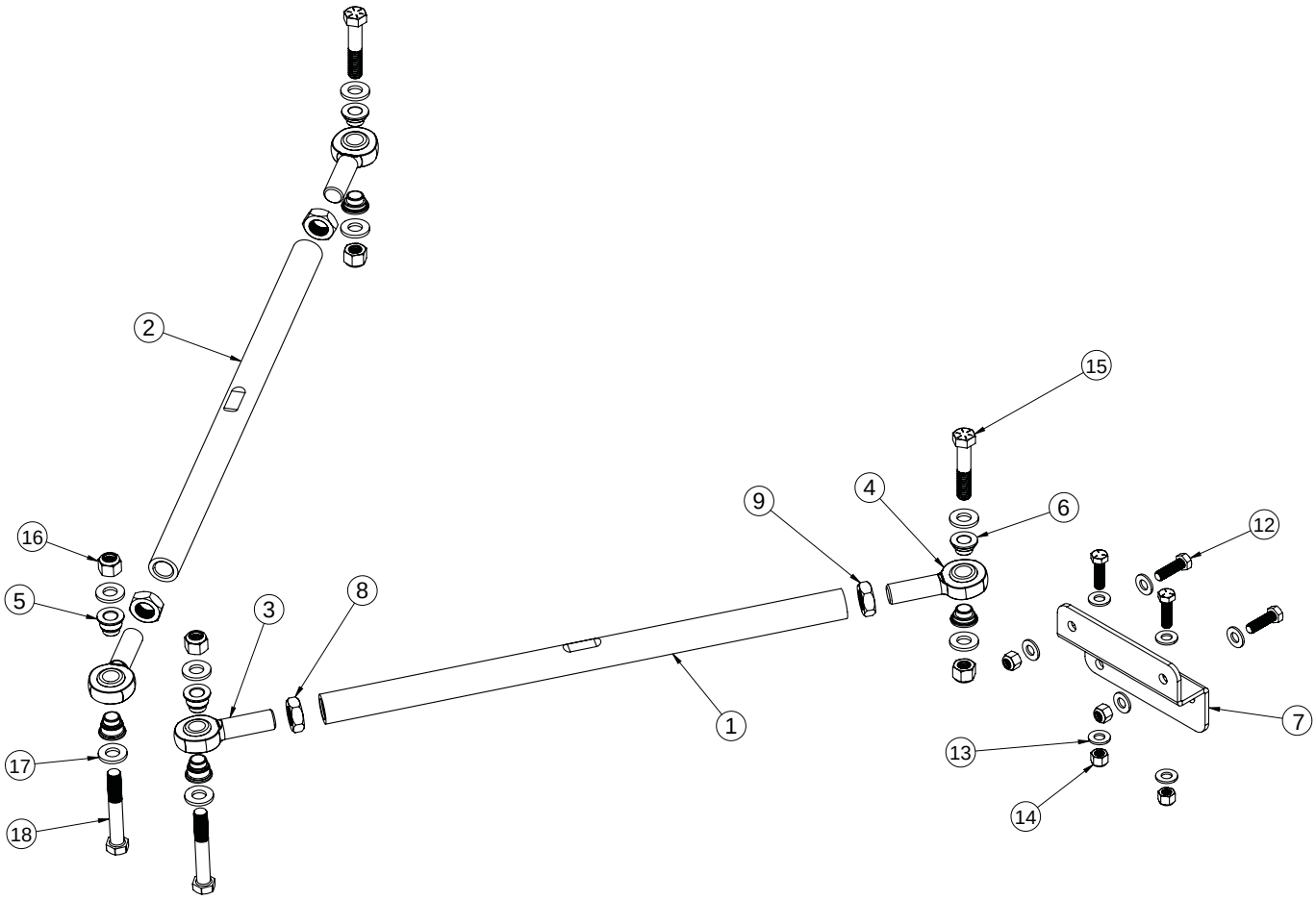
REV1 12/2/21

812-482-2932

Major Components .....In the box

Item #	Part #	Description	QTY
1	90003240	Brace Bar - 19.75" Long - Driver	1
2	90003241	Brace Bar - 18.75" Long - Passenger	1
3	90001589	Heim End - 3/4"-16 RH x 5/8" ID	2
4	90001591	Heim End - 3/4"-16 LH x 5/8" ID	2
5	90002040	Spacer - .500" ID x .500" Spaced - .740" OAL	4
6	90003258	Spacer - .500" ID x ..275" Spaced - .515" OAL	4
7	90003242	Emission Canister Relocation Bracket	1
8	99752004	3/4"-16 RH Jam Nut	2
9	99752006	3/4"16 LH Jam Nut	2
10	31490003	1/4" Line - 1 foot	8
11	90003246	1/2" Diameter Heat Shrink Tubing - 6" Stick	1



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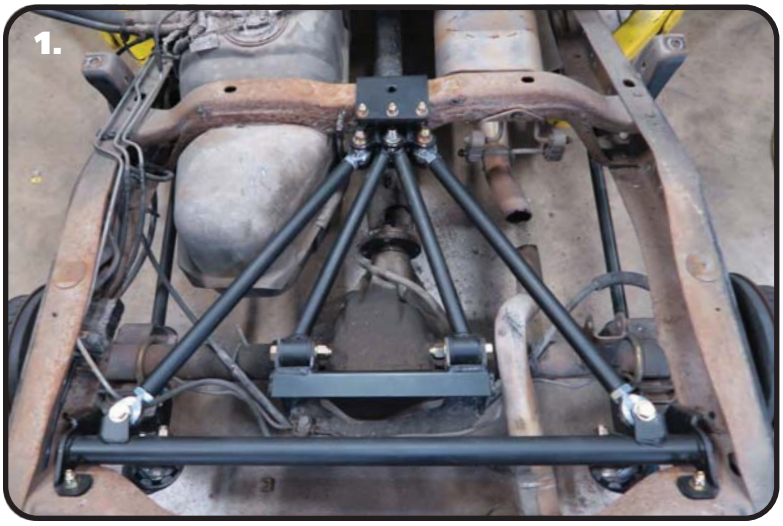
Hardware List .....In the box (Kit# 99010158)

The Hardware Kit contains bags to help aid in selecting the correct hardware for the component being installed. The hardware list shows how the hardware is bagged.

Item #	Part Number	Description	QTY
EVAP BRACKET			
12	99371004	3/8"-16 x 1 1/4" Hex Bolt	4
13	99373003	3/8" Flat Washer	8
14	99372002	3/8"-16 Nylok Nut	4
UPPER CONTROL ARM MOUNTING			
15	99501050	1/2-13 X 2 1/2" Hex Bolt	2
16	99502009	1/2"-13 Nylok Nut	4
17	99503014	1/2" SAE Flat Washer	8
18	99501025	1/2-13 X 3 1/4" Hex Bolt	2
	90002276	Anit-sieze	1

Getting Started.....

THIS BRACE KIT REQUIRES THE RIDETECH WISHBONE SETUP THAT IS EQUIPPED WITH THE PROVISIONS FOR THE BRACE BARS. IT WILL HAVE 2 BAR MOUNTING POINTS ON THE FRONT WISHBONE MOUNT AND 2 MOUNTS ON THE FRONT SIDE OF THE SHOCK CROSS-MEMBER. IF YOUR WISHBONE KIT DOES NOT HAVE THE PROVISIONS, THIS KIT WILL NOT WORK. THE EASIST WAY TO TELL IF YOUR KIT IS SETUP FOR THE BRACE BARS, THE FRONT WISHBONE PIVOT BOLT NEEDS TO BE VERTICAL. IF THE PIVOT BOLT IS HORIZIONTAL, THIS KIT WILL NOT FIT.

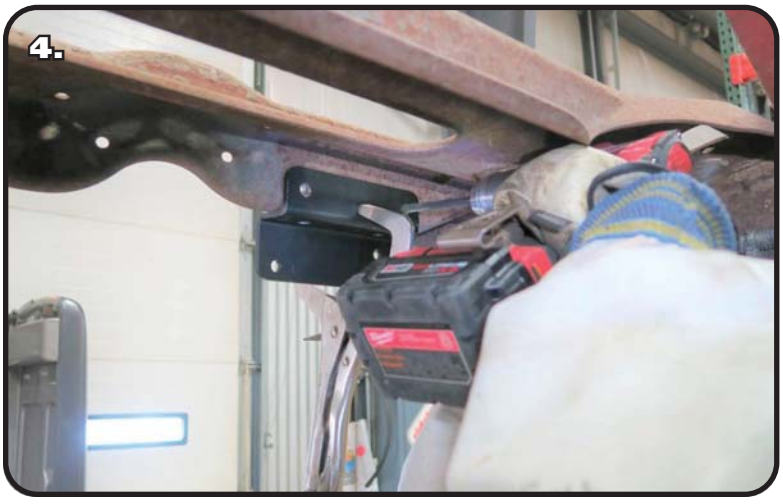


1. Image 1 shows an overview with the brace bars installed. The wishbone setup in your truck has to have the provisions for the brace bars.

Emissions Canister Relocation

2. The emissions canister that is mounted on the drivers side frame rail. **Image 2** illustrates the emissions canister's new location. **Steps 3-13** will help guide you in relocating the canister.

3. **Image 3** illustrates the location of the bracket for relocating the emissions canister. Notice that the staggered holes are the ones that hang down.



4. Drill the (4) mounting holes using a 3/8" drill bit. Use the bracket as a template to drill the holes.

Emissions Canister Relocation

5. Install a 3/8" flat washer on each of the (4) 3/8"-16 x 1 1/4" bolts. Insert (1) bolt/washer into each of the drilled holes. Install a 3/8" flat washer and 3/8"-16 nylok nut on each bolt. Torque to 30 ftlbs.

6. Unbolt the emissions canister from the driver side frame rail of the truck. Retain the OEM hardware for the relocation of the canister.

7. We cut the plastic emission lines a few inches from the end of the canister. We recommend cutting the lines at different lengths to help identify which line is which when reconnecting the lines back together.

Emissions Canister Relocation

8. Bolt the emissions canister to the relocation bracket using the OEM hardware.

9. Disconnect the large rubber hose from the emissions solenoid. You can use pliers to release the clamp and slide it down the hose.

10. Route the rubber hose up through the frame and reattach it to the solenoid. You may have to reposition the rubber hose where it attaches to the canister to keep it from kinking.

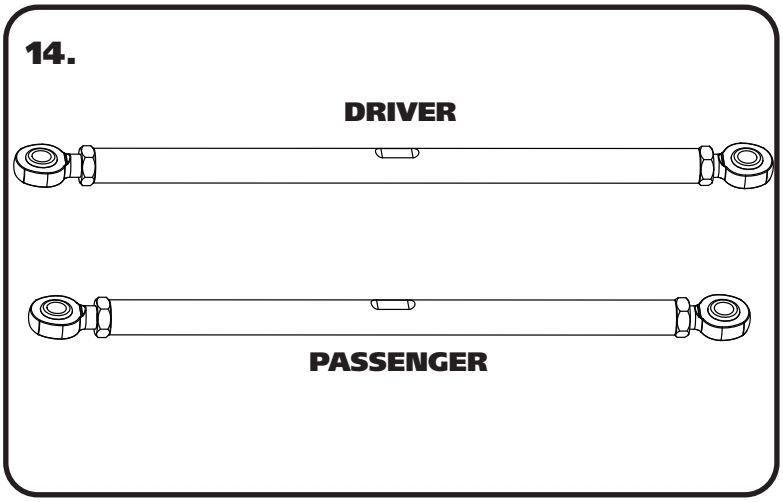
Emissions Canister Relocation

11. Cut the supplied plastic line in half. Run the 2 pieces of line through the driver frame rail. It will run from where you cut the lines, back to the canister. Cut the supplied heat shrink into 4 equal pieces. Slide the pieces of heat shrink on each end of the lines you just ran.

12. The supplied line will slip snuggly into the factory lines. Slip the new lines into the factory lines. Make sure you are connecting the correct lines with each other front and rear. This is where cutting the OEM lines at different lengths will help you identify which lines get hooked together. You may need to trim the new lines to length to get the fit you like.

13. Slip the heat shrink over each connection and heat with a heat gun. **Do not use an open flame to heat up the heat shrink!**

Brace Bars Installation



14. Assemble the brace bars. Each bar has a Right Hand Thread in one end with a Left Hand Thread in the other end. ***Apply anti-sieze to the threads of the heim ends before threading them in to the brace bars***. Install the correct jam nut on each of the heims. There are (2) with Right Hand Thread and (2) with Left Hand Thread. Thread the correct heim in each end of the bars. Thread the heims in evenly. You will adjust the length of the bars as you install them. The Driver bar is the longer bar.

15. Insert a NARROW spacer in each side of the rear heim. The small diameter of the spacers will insert into the heim end. Insert the heim/spacers into the mount on the crossmember. The Driver side is shown in **Image 15**. The drivers side is the longer bar.

16. Install a 1/2" SAE flat washer on a 1/2"-13 x 2 1/2" bolt. Align the through hole of the heim/spacers with the holes of the mount. Insert the bolt/washer in the lined up holes. Install a 1/2" SAE flat washer and 1/2"-13 nylok nut on the threads of the bolt.

Brace Bars Installation

17. Insert a WIDE spacer in each side of the rear heim. The small diameter of the spacers will insert into the heim end. Insert the heim/spacers into the mount on the front wishbone mount. You will need to adjust the bar to get the holes of the mount aligned with the heim/spacers. The bars are threaded left and right, they will adjust in and out evenly by turning the bar.

18. Adjust the bar to get the through hole of the heim/spacers aligned with the mounting holes of the wishbone mount. Install a 1/2" SAE flat washer on a 1/2"-13 x 3 1/4" bolt. Align the through hole of the heim/spacers with the holes of the mount. Insert the bolt/washer in the lined up holes. Install a 1/2" SAE flat washer and 1/2"-13 nylok nut on the threads of the bolt.

19. With the bar installed, tight the jam nuts against the bar.

20. Repeat **Steps 15-19** on the 2nd bar.

21. Torque the brace bar mounting hardware to 75 ftlbs.