

# INSTALLATION INSTRUCTIONS

## STEERING RACK STABILIZER - CAN AM 2018-2021



### TOOLS REQUIRED

- Torque wrench
- Rubber mallet
- Plastic fastener remover
- Floor jack
- Jack stands
- 1/2" 12 Point socket
- 3mm, 10mm Allen wrench
- zip tie snips
- 13mm, 18mm, 19mm deep socket
- 13mm, 18mm, 19mm, 22mm, 15/16", 36mm

#### STEP 1

Lift the front end of the vehicle and safely install jack stands. Remove the front wheels.



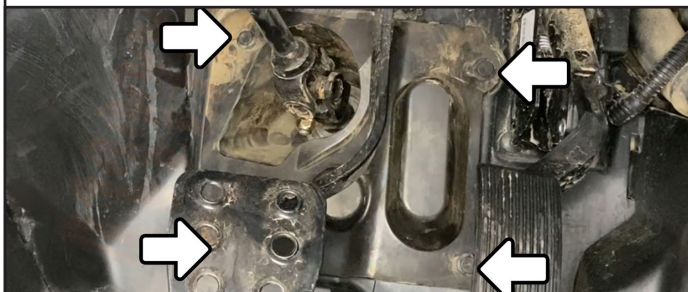
#### STEP 2

Cut the zip tie at the base of the steering column and move the rubber boot to access the joint.



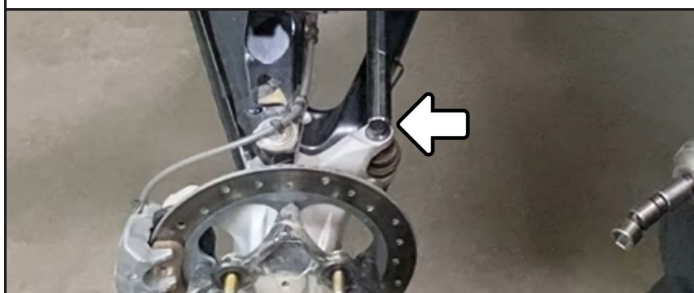
#### STEP 3

Remove the 4 plastic rivets from the driver's side footwell to loosen the rubber boot. Retain plastic snap rivets for later use.



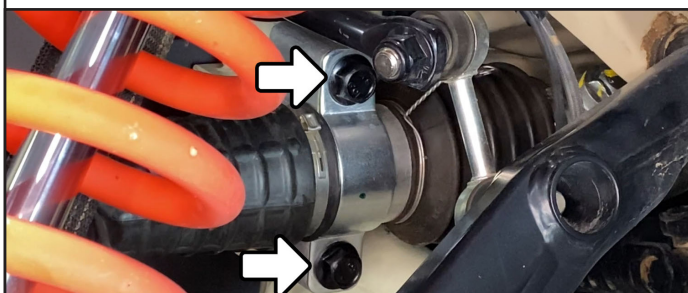
#### STEP 4

Remove the lower tie rod end from the driver's side & passenger side.



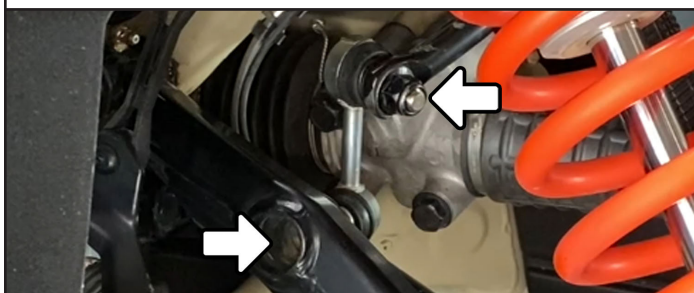
#### STEP 5

Loosen and remove the 2 passenger side steering rack assembly bolts & bracket.



#### STEP 6

Remove the driver's side sway bar end link from the knuckle. Retain hardware.



#### STEP 7

Remove the lower pinch bolt and nut. Retain hardware.



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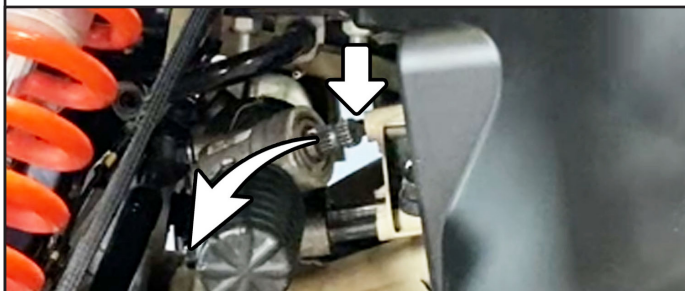
### STEP 8

Remove the 3 driver's side bolts holding the steering rack to the frame. The nuts are accessible from the driver's side footwell.



### STEP 9

Loosen the steering rack pinion on the driver's side to free the assembly.



### STEP 10

Remove the steering rack assembly bracket from the passenger side. Retain for later use.



### STEP 11

With the passenger side bracket removed, you can now carefully slide the rack assembly out through the driver's side.



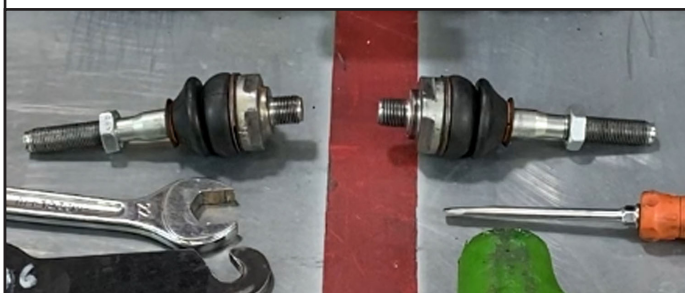
### STEP 12

Remove the tie rods & upper tie rod ends from the steering rack assembly.



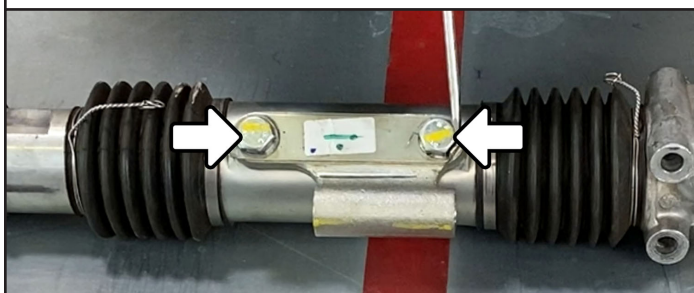
### STEP 13

Remove the upper tie rod heads from the stock tie rods. We will reuse these parts.



### STEP 14

Bend the 2 locking tabs on the factory bracket back and remove from the factory steering rack.



### STEP 15

Remove both 9/16" 12 point socket bolts from the steering rack stabilizer shaft ends.





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### STEP 16

Remove SSM-X3-01 & SSM-X3-02 from the shaft.



### STEP 17

Remove the Steering Rack Stabilizer shaft from SBM-X3.



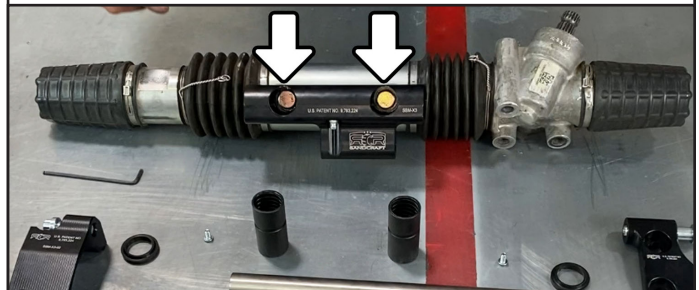
### STEP 18

Loosen Delrin sleeve retaining screws & remove Delrin sleeves, set aside.



### STEP 19

Mount the SBM-X3 to factory steering rack assembly (120 Ft-lbs).



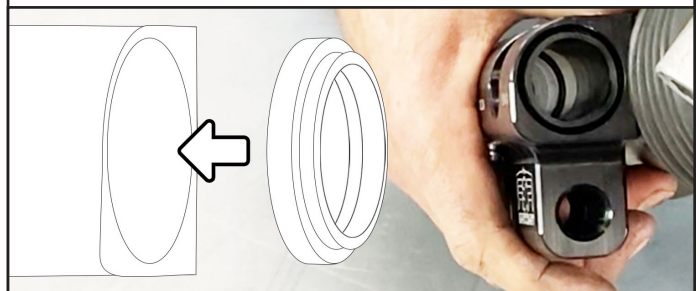
### STEP 20

Re install both Delrin sleeves with the long side facing inbound and tighten the retaining screws.



### STEP 21

Install both the shaft seals to SBM-X3 with the small lip facing outbound.



### STEP 22

Install the Steering Rack Stabilizer Shaft into SBM-X3. Grease the SBM-X3 using the zyrac fitting.



### STEP 23

Install SSM-X3-01 to the driver's side of the Rack Stabilizer Shaft, add anti seize grease to the 12 point socket threads (torque to 77 ft-lbs).





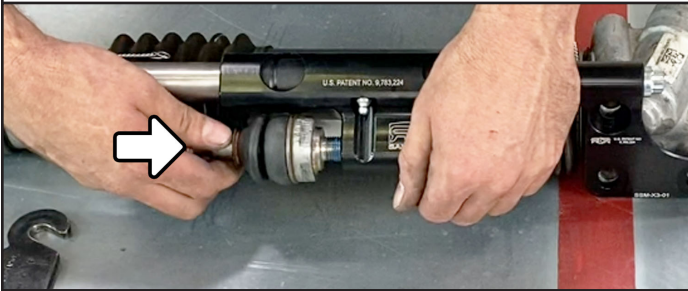
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### STEP 24

Install the inner tie rod ends to SBM-X3. Apply included thread-lock to the threads (torque to 120 Ft-lbs).



### STEP 26

Re install the factory backing plate to the back side of the SBM.



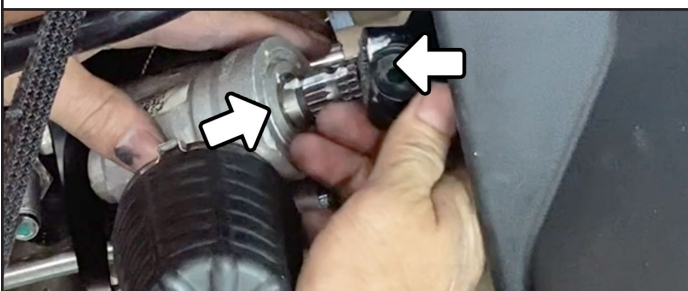
### STEP 28

Re install factory bracket to the passenger side Steering Rack Assembly.



### STEP 30

Align the steering coupler & connect to the pinion.



### STEP 25

Insert bolts into the Steering Rack Stabilizer. The small bolt goes on outer hole, longer bolts go on the inner holes.



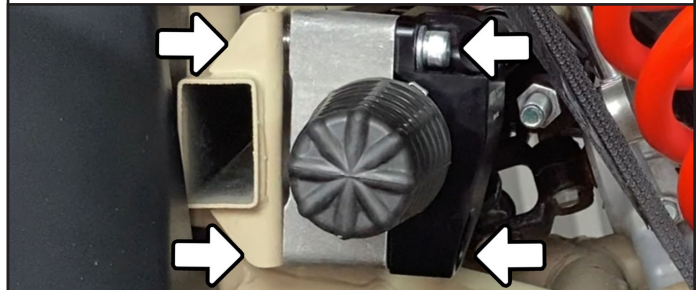
### STEP 27

Install the upgraded Steering Rack assembly into the driver's side of the vehicle.



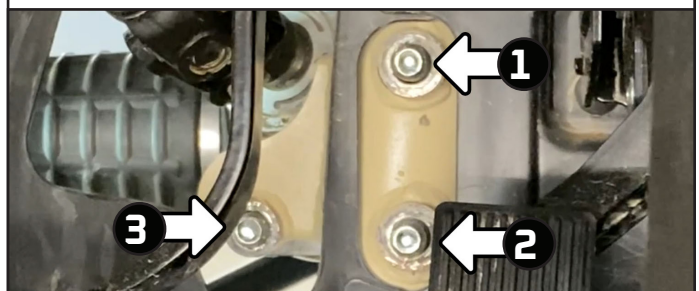
### STEP 29

Install SSM-X3 bracket through the factory bracket on the passenger side and add nuts, do not tighten fully.



### STEP 31

Loosely install 3 bolts through SSM-X3-01 to frame, add nuts to the driver's side footwell & tighten in order.





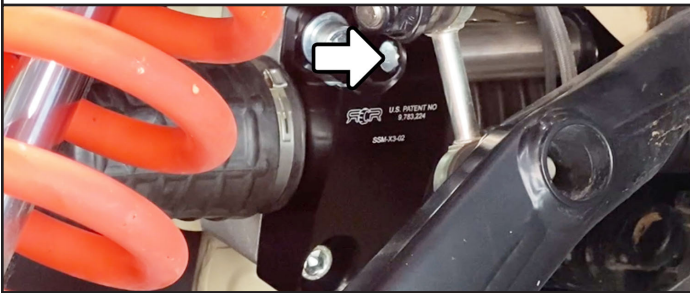
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### STEP 32

Apply anti seize grease to bolt and install SSM-X3-02 Steering Rack Stabilizer shaft to passenger side (torque to 77 Ft-lbs).



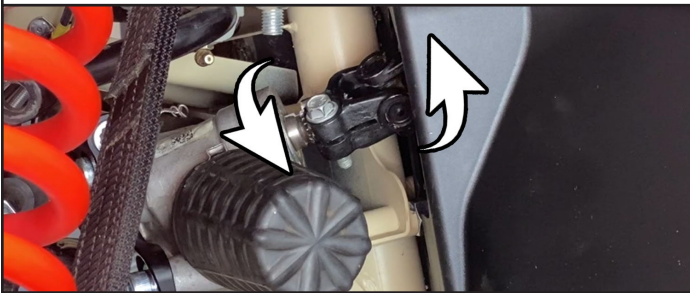
### STEP 33

Install the 2 bolts through SSM-X3-01 to the frame & tighten.



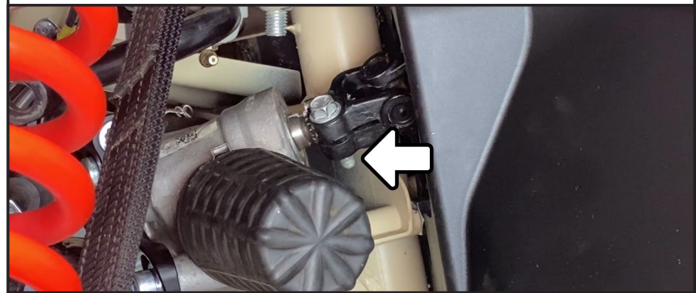
### STEP 34

Check the steering cycle for free movement by turning the steering wheel. If binding occurs, loosen bolts and adjust.



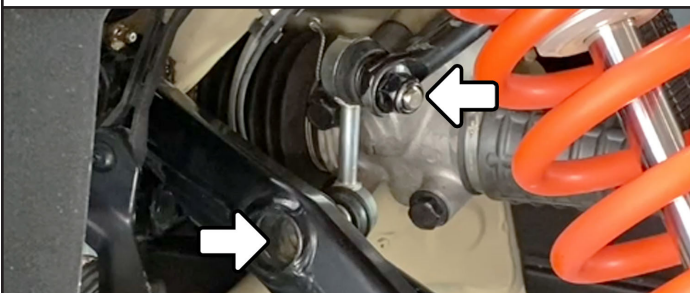
### STEP 35

Align & tighten steering coupler bolt.



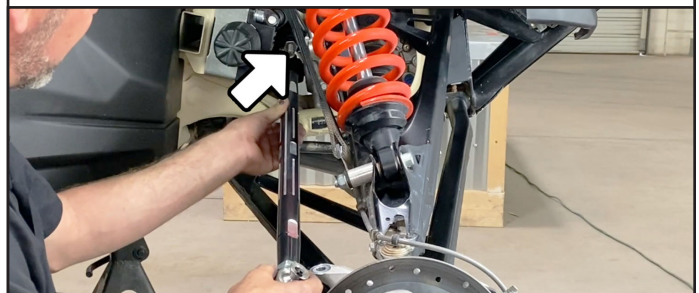
### STEP 36

Re install the driver's side sway bar link.



### STEP 37

Install Sandcraft driver's side & passenger side tie rods to SRS bolt (25mm minimum thread).



### STEP 38

Install the driver's side & passenger side tie rod to the knuckle, insert bolt and tighten (torque to 77 Ft-lb). Insert the cotter pin.



### STEP 39

Re install the weather seal in the driver's side footwell using the 4 plastic snap rivets you removed in step 3.



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### STEP 40

Fasten the included zip tie on the driver's side weather seal & trim.



### STEP 41

Adjust the alignment as needed and fasten the upper and lower lock nuts to retain your position.



### STEP 42

Double check all your work, then re install the wheels, remove the jack stands and lower the vehicle.

