

# CUSCO Front Sway Bar Installation Manual

【 Part # 】 : 429 311 A24  
 【Make: Model】 : Mazda : ND5RC [ Miata MX-5 ]  
 【 Position 】 : Front  
 【 Part List 】 : Sway Bar .....1  
                   Bushings .....2  
                   Brackets .....2  
                   Spacer .....2  
                   M10 Nut .....4  
                   Installation Manual .....1

△**Caution** Approximate installation time : 4 hour (Completion time is vary)

△**Warning** DO NOT install on unintended vehicles.

Congratulation on your CUSCO Product purchase.

Please read the followings before begin the installation. Please feel free to ask questions should you have.



Please keep this installation manual for your record and pass this manual to the next owner if second hand sales occurred.

Quality control is our number one priority.

CUSCO is NOT responsible for any damages resulted by faulty use of this products.

This product is designed for use in Japan only.  
 It must not be used in any other country.

Please Read Carefully followings and understand that safety first and proper use of this product.

 Warning	Safety First!! Improper use of this product may result danger, and death.
 Caution	DO NOT install on unintended vehicles.

**Follow the steps below.**

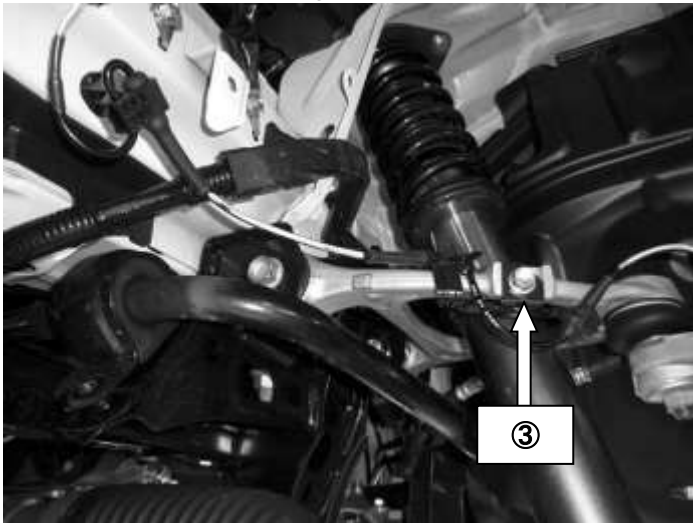
- △Warning** · Drive safe with caution after the completion of this install. Follow the automotive manufacture recommended procedures and specifications.  
· CUSCO is NOT responsible for any damages resulted by faulty use of this products.
- △Caution** Before Installation  
· Confirm parts list.  
· Confirm the parts is designed for the model and make of your vehicle.  
DO NOT USE FOR UNINTENDED vehicles.
- △Warning** Before Begin Installation  
· Always follow the automotive manufacture's procedures when installing CUSCO products.  
· CUSCO products MUST be installed by trained and certified mechanics.  
· Allow 24 hours to cool down a vehicle before start installation of CUSCO Parts.  
· Always wear safety gears when installing CUSCO products as followed: safety gloves, clothes, hats, and eye protections in order to avoid injury.  
· Place fender protection cover while installing CUSCO products.  
· Follow the procedure below in order to avoid injury.  
①TURN OFF an engine.  
②Proceed on FLAT surface.  
③USE AUTOMOTIVE Jacks, Lifts, and Jack Stands proper to vehicles weights.  
④USE Automotive Manufacture's recommended Jack points.  
· Caution with rough surfaces.  
· Keep and Protect removed OEM parts during installations.  
· Caution NOT to damage electric wires, connectors, and brackets.  
· USE OEM bolts and nuts if CUSCO products are not supplied with replacement hardwares.  
· Replace with NEW OEM hardwares if damaged.  
· FOLLOW the Automotive Manufacture's recommended torque specs.  
· DO NOT modify and fabricate CUSCO products during installation.
- △Warning** After Installation and Before driving  
· Check for loose parts.  
· Torque All bolts and nuts with Automotive manufacture recommended specifications.  
· Follow the procedure below before starting the engine.  
①Check for left over tools and parts.  
②Shift the gear to Neutral (N) or Parked (P) with Parking Brake ON.  
③Remove Jacks, Lift, and Jack Stands from a vehicle then confirm all 4 wheels touches ground.
- Regular Maintenance  
Inspect installed CUSCO parts regularly for safety and comfort.  
Drive with Caution, Sway bar changes handling characteristic of vehicles.  
· Re-Torque installed CUSCO parts regularly.  
· Stop using CUSCO products if irregular vibrations, sound, and / or damaged, broken.  
Slowly park the vehicle if occurred while driving.  
· Have a certified repair shop perform inspection of the vehicle.  
· Replace defected products with new products if occurred.  
· CUSCO is NOT responsible for cosmetic blemishes NOR functional claims. CUSCO in NOT responsible for ANY damages or accidents, ALL CUSCO products are OFF ROAD USE ONLY.

## Removal of OEM Front Sway Bar

- ① Remove Front Tires.
- ② Remove Front Bumper.
  - Remove 2 bolts from top of a bumper and 4 clips.
  - Disconnect Left and Right fender joints.
  - Remove Undercover and Fender Front Liners.
  - Disconnect electrical connectors then remove the front bumper.

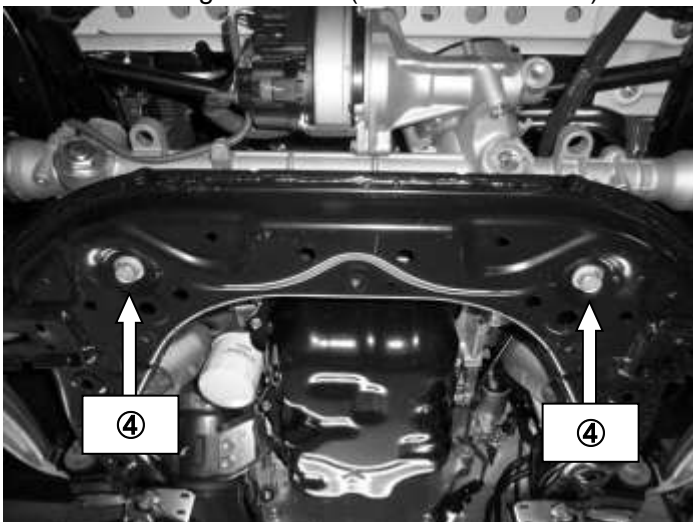


- ③ Remove both Left and Right ABS sensor wires from upper arms.

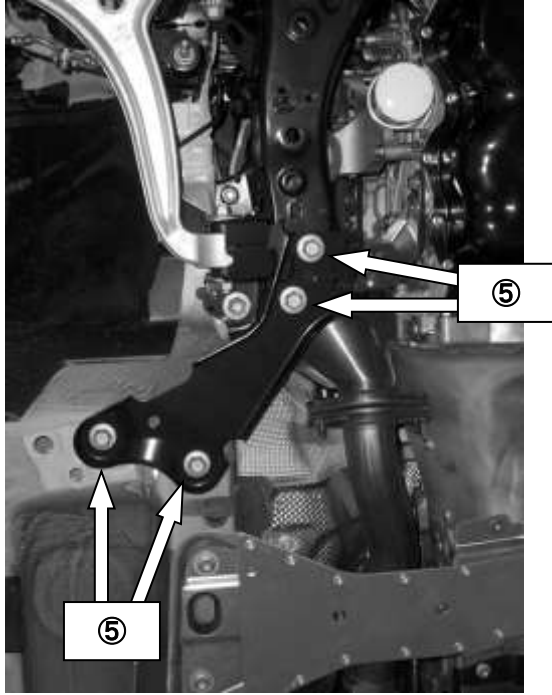


See figure 3

- ④ Remove steering rack bolts (indicated below #4)

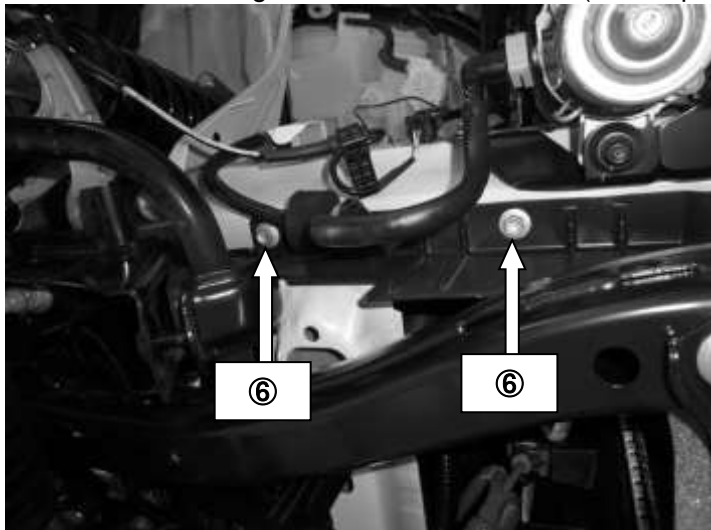


⑤ Remove both Left and Right brackets shown below. (4 bolts per side)



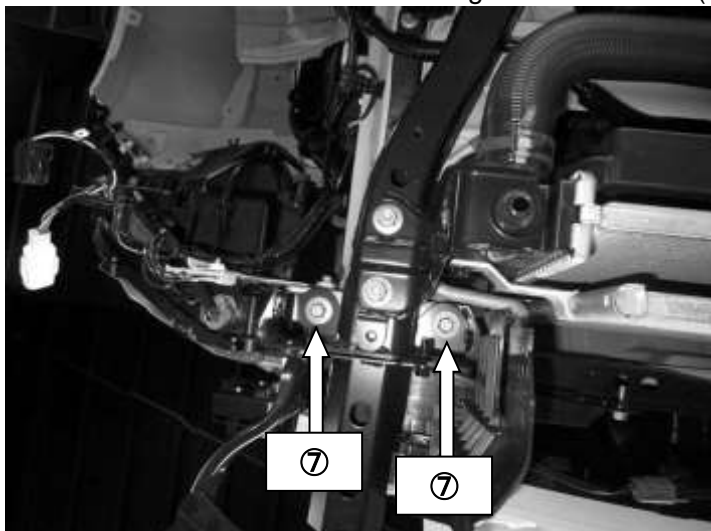
See figure 5

⑥ Remove Left and Right cross member covers. (2 bolts per side)



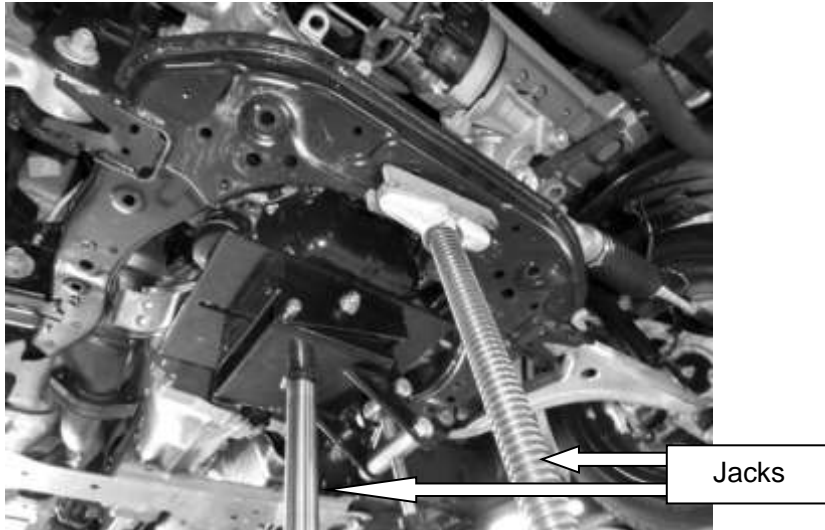
See figure 6

⑦ Remove 2 bolts from both Left and Right front sections. (2 bolts per side)

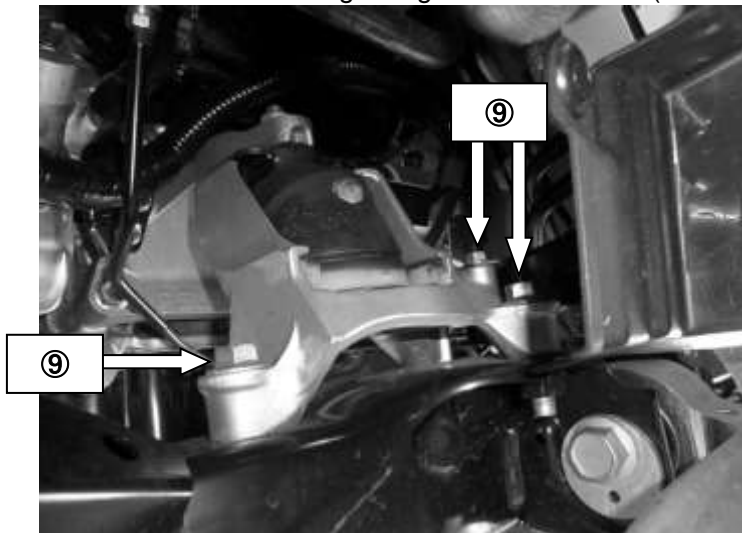


See figure 7

⑧ Support the cross member and the engine with transmission jacks.



⑨ Remove both Left and Right engine mounts bolts. (3 bolts per side)



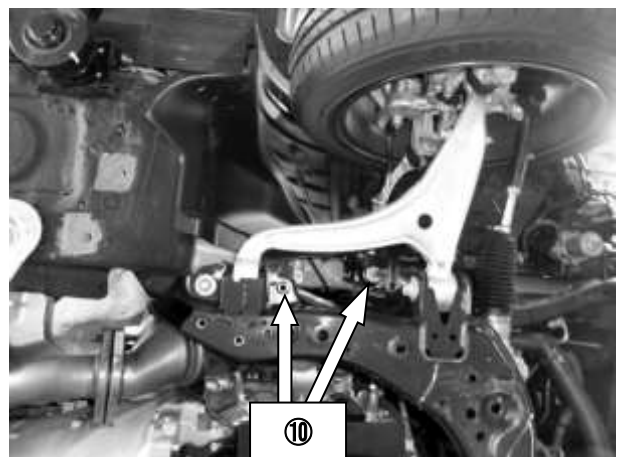
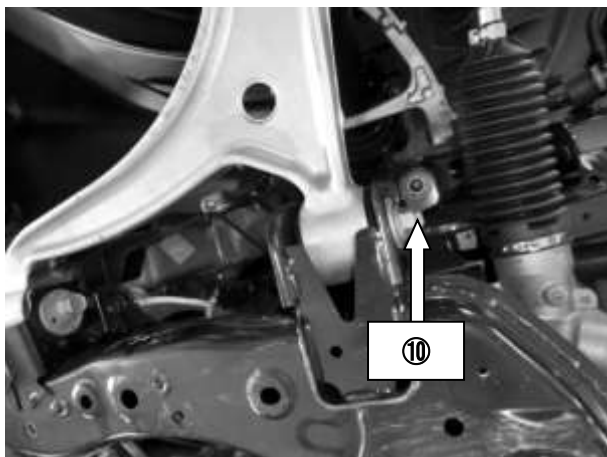
See figure 9

⑩ Loosen the both side's cross member bolts and nuts. (3 bolts per side)

DO NOT remove the bolts and nuts, please ensure the nuts are engaged at least 3 turns.

⑩ Lower the cross member by 30mm.

**Caution** : Place jacks then start lowering the cross member for safety caution.

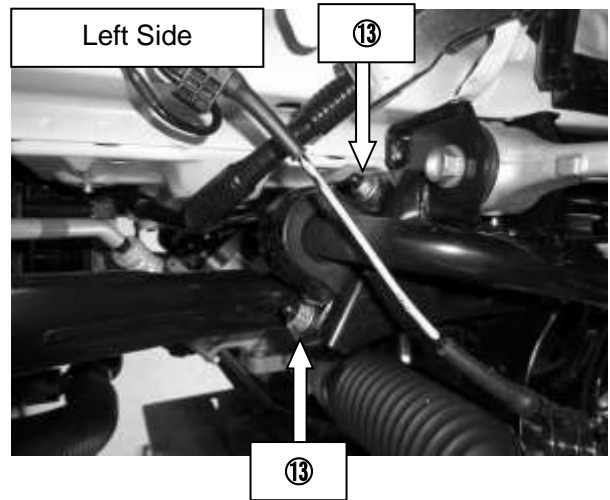
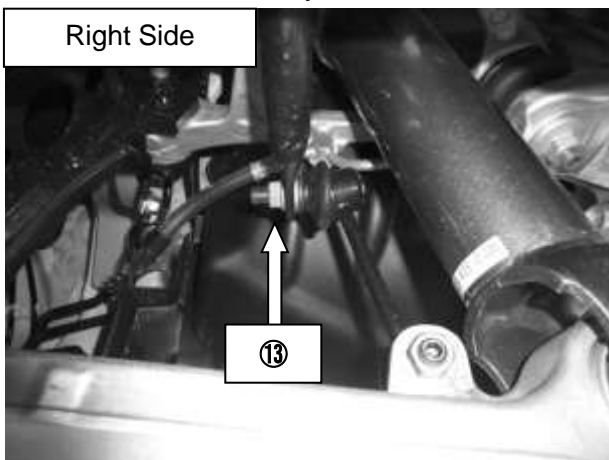


Right side shown

⑫ Shift the steering rack towards to front without putting stress on steering shaft.



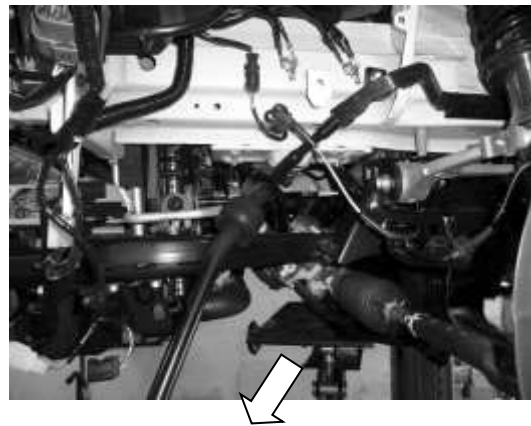
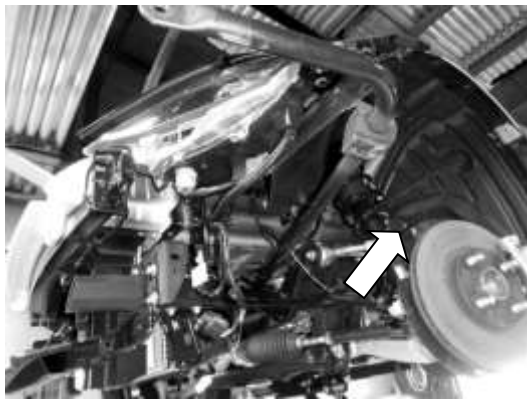
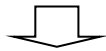
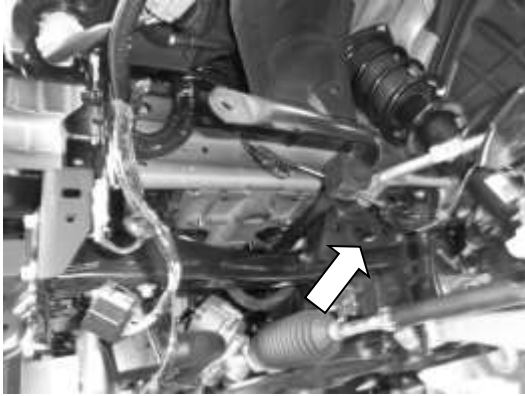
⑬ Remove both side's sway bar end links and brackets.



⑭ Slide the OEM sway bar over the tie rods then towards to front.



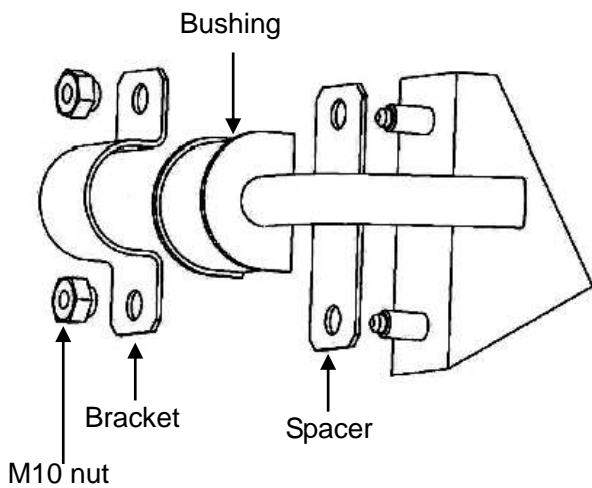
⑬ Slide the sway bar to left, careful not to touch air conditioning pipes.



### Front Sway Bar Installation

Reverse the removal procedure for installation of supplied bushings, brackets, spacers and nuts.

#### Bracket Assembly



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