

Kia Forte Sub Frame Collar DIY

These Collars Install Into The Holes In Which The Front 2 Sub Frame Bolts Mount The Sub frame To The Body Of The Car & Where The 2 Rear Sub Frame Nuts Mount The Sub Frame Onto The Rear Studs.

This Kit Includes:

- **1 X Front Driver Side (Long With No Flats)**
- **1 X Front Passenger Side (Long With Parallel Flats)**
- **1 X Front Rear Driver Side (Short With Parallel Flats)**
- **1 X Front Rear Passenger Side (Short With No Flats)**

Note: Prior to doing this modification, find a road you know very well. Take a test drive so that you have an idea of what the vehicle felt like prior to the installation of the ATQ Sub Frame Collars.

Tools Required:

- **19mm ½" Socket**
- **½" Ratchet with long extension**
- **Impact Gun**
- **14mm 3/8" Socket**
- **3/8" Ratchet**
- **½" Torque Wrench, Capable of 120lbs Torque**
- **2 Jack Stands Or Automotive Lift**
- **1 Jack (If you do not have access to a lift)**

Installation Instructions for the 2010-2013 Kia Forte Sub Frame Collars

“Instruction for the collars at the rear of the Sub Frame “

- Jack up the front end of the vehicle and place on Jack Stands (The entire front end needs to be off of the ground) Using an Automotive Lift eliminates this process.
- Take the impact gun and 19mm socket and loosen the 2 very front sub frame bolts, and the rear sub frame nuts. (**DO NOT REMOVE THEM!**) They just need to be loosened one or 2 rotations. This allows the Sub Frame to shift when installing the collars.
- Take the 14mm socket and ratchet and remove the 14mm nut and bolt on the rear Sub Frame bracket, on both sides. Place the nut and bolts in a safe place so to not lose them.
- Take the driver side **REAR** Sub Frame nut off completely. Now take the Corresponding collar (**Small, with the 2 parallel flats**) and line the collar up with the hole. Take the nut and using your 19mm socket and ratchet, hand ratchet the collar until it is fully seated. Then remove the nut once again. Place the bracket back into place and reinstall the 14mm nut and bolt snug. Now you're ready to reinstall the 19mm nut that sits on the stud coming off of the body of the car. Thread the nut into place but **DO NOT** tighten yet. You'll need the Sub Frame to be able to shift. If you tighten it now it'll make things really hard to line everything up.

Repeat this process for the Driver Side Rear Passenger Stud. This one will be the small round one with no flats.

Now that you've installed the two rear collars, you can move onto the front. Remember **DO NOT TIGHTEN THEM TO TORQUE SPEC UNTIL THE END!**

“Instruction for the collars at the front of the Sub Frame”

You will now completely remove the 19mm Bolt at the front Passenger Side of the Sub Frame. If you have any corrosion in the hole, or if the bolt is rusty. Take a wire wheel and clean the bolt, and clean out the hole with whatever tools you have available. Otherwise it'll make installation problematic. Line up the Long Collar with the 2 Flats and insert it into the hole. You might need to use a mallet on some models if it's very snug. Once the collar is in, insert the 19mm bolt, and using your 19mm socket and ½” Ratchet. You are going to reinstall the bolt, put the palm of your hand under the Ratchet, and gently apply upwards pressure. Be very careful with the front 2 bolts, as if you cross thread them, you'll be in big trouble. Once again just snug the bolt gently. **DO NOT TIGHTEN TO SPEC.**

The final collar is going to be the long collar with no flats. This collar will install into the Front Driver Side of the Sub Frame. Repeat the same steps as with the Front Passenger Side Collar.

Now that all of the collars are installed, and the rear bracket is installed. You can now start to tighten everything! 😊

- Set your torque wrench to 120LBS
- Using the ½” 19mm Socket and your torque wrench. Tighten the front driver side bolt to spec.
- Move in an X-Pattern and tighten the rear passenger side nut to spec.
- Move to the front passenger side bolt and tighten to spec
- Move to the rear driver side nut and tighten to spec.
- Now that all the 19mm nuts and bolts on the Sub Frame are tightened to spec, you will now take your 3/8” Ratchet and 14mm 3/8” Socket and tighten the nuts and bolts on the brackets in the rear. Be careful! If you overtighten these they will break!!

Finally the collars are installed!! 😊 Remove the Jack Stands and lower the vehicle, or lower the Automotive lift depending on what you've used.

Hit the roads and enjoy the tighter steering and overall smoother ride quality of your Forte!

