



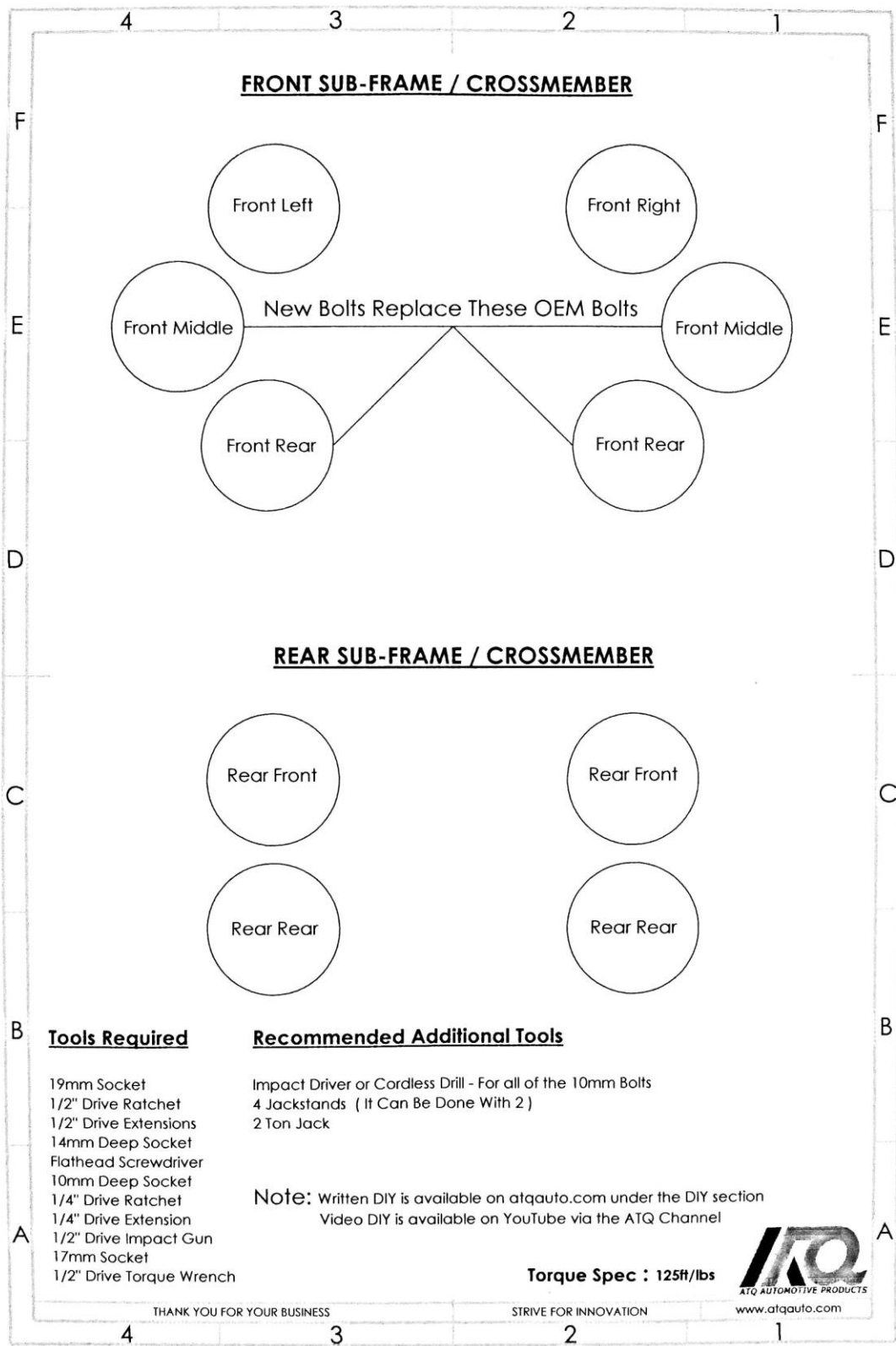
## **2018+ Kia Stinger 3.3L AWD Sub-Frame Collar Instructions**

### **Tools Required:**

- ½" Drive 19mm Socket
- ½" Drive Ratchet
- ½" Drive Extension
- ½" Drive 17mm Deep Socket
- ½" Drive 14mm Socket
- Flathead Screw Driver
- ¼" Drive Ratchet
- ¼" Drive Extension
- ¼" Drive 10mm Deep Socket
- ½" Drive Impact Gun
- ½" Drive Torque Wrench in FT/LBS
- 2-4 Jack Stands
- 2 Ton Automotive Jack

### **Additional Tooling Optional:**

- Impact Driver or Cordless Drill ( This makes it much quicker with respects removing the fascia from the bottom of the vehicle.)



# FRONT

## **Step 1**

Jack up the front of the vehicle via the pinch welds and get enough height that you can safely crawl underneath the vehicle, and support with your Jack Stands. **Note: Those with access to a automotive hoist. Just safely set up your arms on the pinch welds and lift the vehicle.**

## **Step 2**

Using your 10mm socket and flathead screw driver, remove both of the Skid Plates covering the sub-frame. Carefully remove the skid plates and store the hardware in a safe location so that nothing gets lost.

## **Step 3**

Now that you have access to all of the front bolts holding the sub-frame/crossmember to the vehicle. Grab your Impact gun, Extension, and 19mm socket and loosen all 6 bolts. **Note: You ONLY want to loosen them a few turns so that the Sub-Frame can shift! DO NOT REMOVE THEM ALL!** Once this is done, move onto the next step.

## **Step 4**

Remove the **FRONT LEFT** Bolt. Take the corresponding collar as per label on the bags the collars arrived in, and slide the collar onto the bolt. Manually thread the bolt back into the hole, and use your ½" Ratchet, ½"Extension, and 19mm socket and snug the bolt in place, then loosen the bolt 1-2 rotations. **NOTE: DO NOT UNDER ANY CIRCUMSTANCES USE THE IMPACT GUN ON ANY OF THE BOLTS WHEN TIGHTENING! YOU WILL RISK CROSS THREADING YOUR BOLTS.**

## **Step 5**

Remove the **FRONT RIGHT** Bolt. Take the corresponding collar as per label on the bags the collars arrived in, and slide the collar onto the bolt. Manually thread the bolt back into the hole, and use your ½" Ratchet, ½"Extension, and 19mm socket and snug the bolt in place, then loosen the bolt 1-2 rotations.

## **Step 6**

Remove one of the **FRONT REAR** bolts. Take one of your supplied bolts, and put the corresponding collar onto the bolt. Manually thread the bolt back into the hole, and use your ½" Ratchet, ½"Extension, and 19mm socket and snug the bolt in place, then loosen the bolt 1-2 rotations.

### **Step 7**

Remove the other **FRONT REAR** Bolt. Take one of your supplied bolts, and put the corresponding collar onto the bolt. Manually thread the bolt back into the hole, and use your ½" Ratchet, ½" Extension, and 19mm socket and snug the bolt in place, then loosen the bolt 1-2 rotations.

### **Step 8**

Remove one of the **FRONT MIDDLE** Bolts. Take one of your supplied bolts, and put the corresponding collar onto the bolt. Manually thread the bolt back into the hole, and use your ½" Ratchet, ½" Extension, and 19mm socket and snug the bolt in place, then loosen the bolt 1-2 rotations.

### **Step 9**

Remove the other **FRONT MIDDLE** Bolt. Take one of your supplied bolts, and put the corresponding collar onto the bolt. Manually thread the bolt back into the hole, and use your ½" Ratchet, ½" Extension, and 19mm socket and snug the bolt in place, then loosen the bolt 1-2 rotations.

### **Step 10**

Now that all of your bolts are installed. Using your ½" Ratchet, ½" Extension, 19mm Socket. Snug all of the bolts in the Front Sub-Frame by hand. Once this has been achieved. Set your Torque Wrench to **125ft/lbs** and tighten all of the front bolts. It's easier to do if you use the ½" extension as it allows you more room to turn the Torque Wrench.

### **Step 11**

Reinstall your Skid Plates, the front one at the bumper goes on first, then the plate under the engine second.

### **Step 12**

Safely lift your vehicle, remove the jack stands one at a time, and set the front of the vehicle down to the ground. Now you're ready to work on the rear set!

# REAR

## **Step 1**

Jack up the Rear of the vehicle via the pinch welds and get enough height that you can safely crawl underneath the vehicle, and support with your Jack Stands.

## **Step 2**

Remove both the left and the right Aero Plates from the car using your ¼" Ratchet and 10mm Socket. Safely put the plates aside keeping in mind which side goes where on the car and keep the hardware in a safe place so that nothing gets lost.

## **Step 3**

**REAR FRONT:** Take your Impact Gun and 19mm Socket and remove the bolt holding the Sub-Frame to the body of the vehicle. Remove the Bolt.

Now take your 17mm Socket and remove the bolt connected to the bracket that you removed the Sub-Frame Bolt from.

Now take your 14mm deep socket and your extension and remove the 14mm Nut & Bolt from the other end of the bracket.

Pull the assembly down.

This is where most people get confused.

Push the bolt through the bracket in the direction it mounts to the vehicle. Insert the corresponding collar onto the bolt. Then put the bracket back in place and using your ½" Ratchet and 19mm Socket. Push upward and gently thread the bolt back in place. Do not tighten it! Once you're confident that you have the bolt in at least half way. Reinstall the 14mm Nut and Bolt at the other end of the bracket. Once again only a few turns. Now take your 19mm bolt and snug it in place by hand using your ratchet and 19mm socket. Then tighten the 14mm nut and bolt by hand so that they are tight. Reinstall your 17mm Bolt and this Collar is complete for now.

## **Step 4**

Repeat Step 3, but on the other side of the Sub-Frame

### **Step 5**

**REAR REAR:** Remove the 19mm Nut with your impact gun. Insert the collar onto the threaded rod, and then drive the collar into place using the nut. It's okay to gently use your impact gun to snug this nut. Once it is tight, move to the otherside.

### **Step 6**

Repeat Step 5, but on the other side of the Sub-Frame

### **Step 7**

Take your Torque Wrench and tighten the 2 front bolts and the 2 rear nuts holding the Sub-Frame to the vehicle. Torque Spec is **125ft/lbs**

### **Step 8**

Reinstall your Side Aero Plates

### **Step 9**

Jack up the vehicle, remove the jack stands one at a time and safely put the vehicle back on the ground.

**You're ATQ Kia Stinger 3.3L AWD Sub-Frame Collars are now installed.**

***Take your Stinger out and find some nice twisty roads to play on!***

***ENJOY!***