

## Part# 80520

### Upper Control Arm for 2019 Ford Ranger

Factory manual is recommended for removal and re-installation of all factory components.

Place vehicle securely on jack stands. Make sure the front wheels are not contacting the ground. Chock both rear wheels of the vehicle to secure it from rolling back.

#### Tool List:

- 8mm Wrench
- 21mm Wrench
- Plastic clip tool or flat screw driver
- Drill
- Hammer
- 18mm Wrench
- Phillips head screw driver
- 12mm Allen wrench
- 9/16" Drill Bit or step bit

**Note:** This install is being performed with an aftermarket shock already installed.

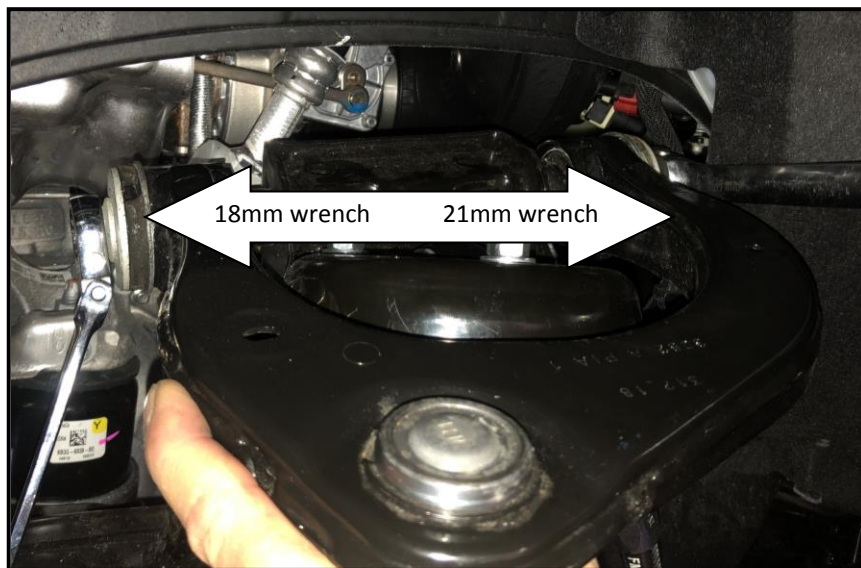
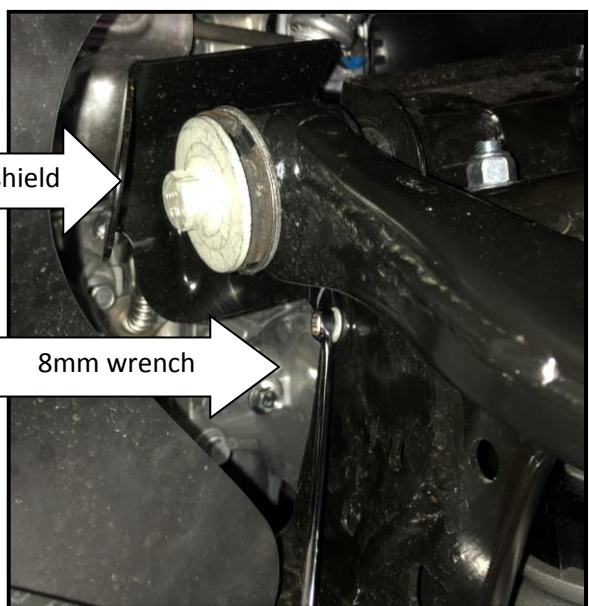
1. Clip the cable ties that hold the wheel speed sensor wiring to the upper control arm. Then remove the clips that hold on the rear fender well apron using a Philips head screwdriver and pull the apron back.



- Using a 18mm wrench, loosen the stock upper ball joint nut (if the joint spins it may be necessary to hold the stud with an 8mm wrench). Do not completely remove the nut, only make it finger loose.



- Using an 18mm and 21mm wrench, loosen the upper control arm through bolt and remove the nut. The passenger side has a heat shield that covers the rear control arm pivot, this heat shield needs to be removed using an 8mm wrench. The shield will be reinstalled after the new Total Chaos UCA's are installed.



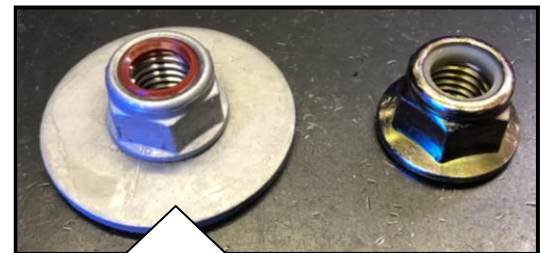
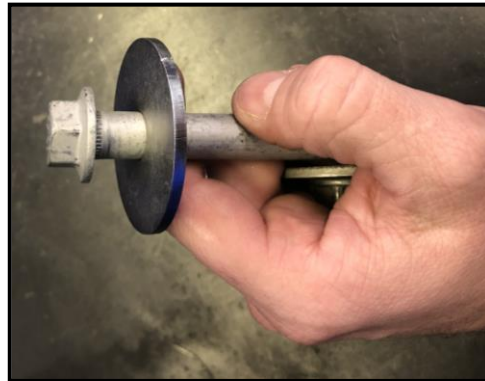
- Remove the stock upper ball joint nut and carefully lift the arm out of the spindle making sure the spindle doesn't lean too far outward and dislodge the inner CV joint.



5. The only thing holding the stock upper control arm on the car is the through bolt, slide the through bolt rearward out of the stock arm and remove the arm.



6. With the bolt removed and on the bench, use a hammer and tap off the washer that is splined onto the bolt. You will replace this washer with a supplied 1/8" thick plated washer. The stock through bolt nut will also be replaced with the provided 14mm nylock flange nut and another 1/8" plated washer.



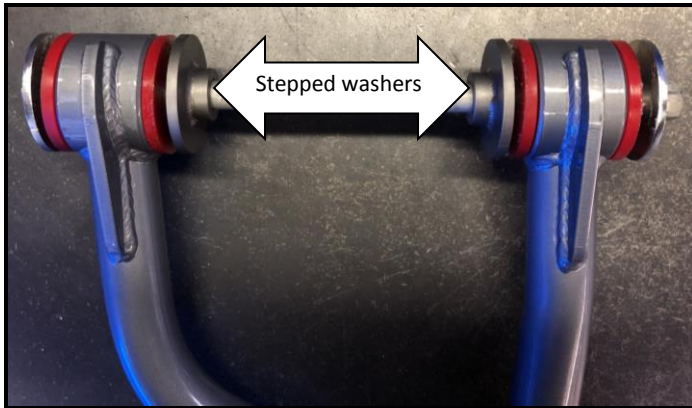
Do  
not  
re -  
use

7. Remove the bracket that holds the brake line to the spindle (8mm), then using either a 9/16" drill bit or step bit drill out the bottom of the spindle so the new uniball bolt will go through the spindle. After the hole is drilled, re-mount the bracket.





8. With the bushing, inner sleeves and zerk fittings installed and generously greased, its time to put the UCA on the vehicle. There are two styles of washers provided in the kit (four 1/8" thick flat washers and four 3/16" thick stepped washes) the thinner washers go on the outside of the pivots, and the stepped washers go to the inside with the large side facing the inner bushing. Slide the bolt through the rear washer and bushings, then through the frame, then through the washers and bushings on the front of the UCA.



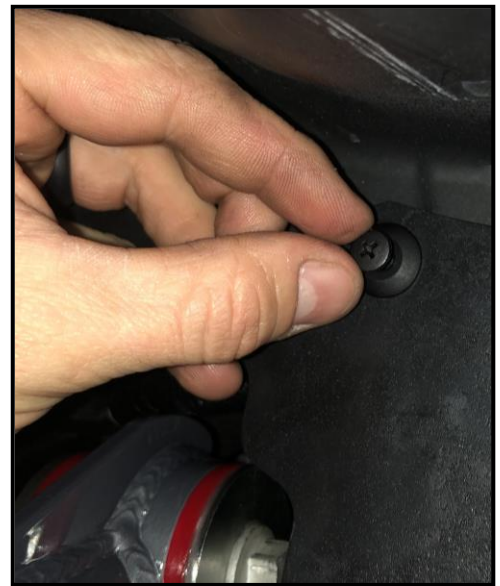
9. Once the arm is installed put the new nylock nut onto the through bolt and use a 21mm wrench and 18mm wrench to tighten the through bolt (101 ft/lb).



10. It is now time to rotate the UCA down and connect it to the spindle using the supplied tapered adapter and supplied hardware. Slide the 14mm 2.0 socket head bolt through the upper misalignment, lower misalignment, tapered adapter, spindle, washer, and into the supplied 14mm 2.0 flange nylock nut. Tighten the bolt using a 12mm Allen wrench and a 21mm wrench (130 FT/LB).



11. Replace the inner fender well flaps using the stock hardware, and using the supplied zip ties, attach the ABS wire to the upper control arm zip tie tabs.



12. With the install complete, re check all hardware before taking the vehicle to an alignment shop. After 500 miles re check all hardware for tightness.



## Parts List: 80520

99852L	Upper A-Arm: Left - 2019+ Ford Ranger (domestic)	1
99852R	Upper A-Arm: Right - 2019+ Ford Ranger (domestic)	1
10619	14mm - 2.0 x 120mm GRADE 12.9	2
100916-C	Hi-misalignment Spacer: 1"-9/16" - CUSTOM	2
10034-TCF	Hi-misalignment Spacer: 1" - 3/4" - TCF	2
11141	Nut: 14mm - 2.0 Flange Nylock (Zinc)	4
30004	Tapered Spindle Adapter: 9/16" ID	2
10005	Zerk Fitting: 1/4"- 28 90 degree	4
69601	Inner Sleeve: Upper A-Arm	4
60684	Bushing Universal Half - Urethane: Red	8
69624	Washer: Upper Arm 2 1/4" x 10 Ga x 9/16" ID	4
69630	Stepped Washer: Upper Arm 2 1/4" x 3/16"	4
FK-WSSX16T-1	1" Uniball Stainless w/ PTFE Liner	2
30604	Snap Ring: 1" Uniball	2