

DIRECT-REPLACEMENT INSTALLATION GUIDE

TOYOTA TUNDRA 4WD | 2022 - ON

## **BILLET UPPER CONTROL ARM KIT**

803-35-000 - Kit: Control Arm, 2022 - On Toyota Tundra Upper Control Arm, Black 803-35-001 - Kit: Control Arm, 2022 - On Toyota Tundra Upper Control Arm, Orange



FOX products are subject to continuous development and improvement. To find the most up to date product information such as color installation manuals, videos, and FAQs please visit:

### http://ridefox.com/manuals

To locate the correct installation manual, use the 8-digit part number found on the end of the packaging box (see illustration below):



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# INTRODUCTION

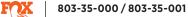
Thank you for choosing FOX direct replacement, upper control arms for your vehicle. FOX products are designed, tested, and manufactured by the finest professionals in the industry.

FOX recommends that you become completely familiar with the handling characteristics of your modified vehicle before operating it under rigorous conditions, helping to avoid potential rollover situations and other loss of control events. FOX further recommends that you use appropriate protective equipment at all times when operating your vehicle.

To achieve the best performance and product longevity, periodic service and maintenance is required. Please refer to the Service and Upgrades section for more information.

### IN THE BOX

- Front Billet Upper Control Arms
- Supplied Hardware
- Installation Guide

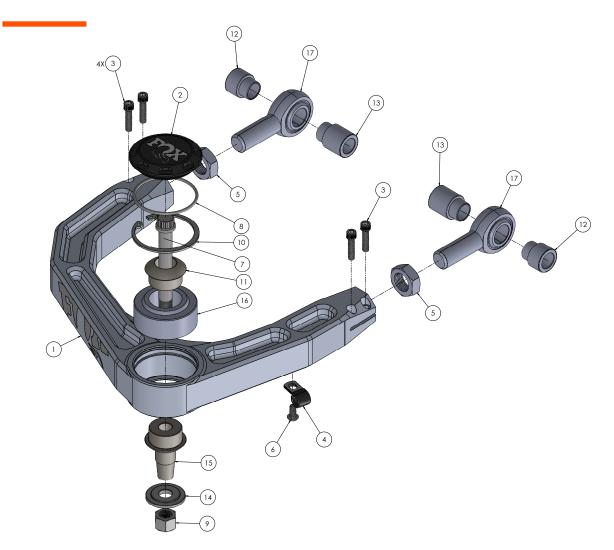


# **UCA SUPPLIED PARTS**

	FRONT UCA ASSEMBLY			
FOX PN	DESCRIPTION	QTY	NOTES	
B1659	Bag Kit: Pivot Hardware	2		
	Misalignment: 1" x .563" x .740" Pivot Misalignment	2		
	Misalignment: 1" x .563" x .959" Pivot Misalignment	2	Hardware to mount the billet control	
	Hardware: 3/4"-16 Jam Nut	2		
	Rod End: 3/4"-16 PTFE Lined Rod End	2		
	Hardware: : 1/4" -20 x 1" Socket Head Cap Screw	4	Hardware to attach ABS wires to the billet upper control arm	
B1660	Bag Kit: Taper Hardware	2		
	Hardware: 1/2"-20 Nylock Nut Clear	1		
	Hardware: 3/8" Loop Clamp	1		
	Misalignment: 1/2" Sunk Misalignment	1	Hardware to mount	
	Misalignment: 2022+ Toyota Tunda Taper Misalignment	1	the billet control arm to the steering knuckle	
	Hardware: 1/4"- 20 x 1/2" Button Head Hex Drive Screw	1		
	Hardware: 1/2"-20 x 4" Bolt, 12 Point	1		
	Hardware: 1/2" Stepped Washer	1		
		Black: 803-35-008 Orange: 803-35- 009		
	Hardware: O-Ring Cap Seal	1	O-Ring seal for the cap to billet control arm	
A5131-BLK	UCA: 2022+ Toyota Tundra Billet Driver Side Upper Con- trol Arm Assembly	1	Black: 803-35-000	
A5132-BLK	UCA: 2022+ Toyota Tundra Billet Passenger Side Upper Control Arm Assembly	1		
A5131-ORG	UCA: 2022+ Toyota Tundra Billet Driver Side Upper Con- trol Arm Assembly	1	Orange: 803-35-001	
A5132-ORG	UCA: 2022+ Toyota Tundra Billet Passenger Side Upper Control Arm Assembly	1		

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### UCA DIAGRAM



PART NO.	NAME	PART NO.	
1	Billet Upper Control Arm	10	Snap Ring
2	Сар	11	Sunk Misalignment
3	Pinch Bolt	12	Outer Pivot Misalignment
4	Wire Clamp	13	Inner Pivot Misalignment
5	Jam Nut	14	Stepped Washer
6	Wire Clamp Bolt	15	Taper Misalignment
7	Uniball Bolt	16	1.25" Spherical Bearing
8	O-Ring	17	3/4" Rod End
9	Nut		



### ▲ WARNING SAFETY INSTRUCTIONS

- FOX direct-replacement UCA's are designed to fit and allow proper clearance with the stock suspension. If aftermarket suspension components are installed it is the customer's responsibility to ensure that interference between the FOX UCA's and other vehicle components does not occur at any point in the shock stroke.
- FOX direct-replacement UCA's should always be installed as a set for maximum performance.
- Proper installation and service procedures are essential for the safe and reliable operation of the suspension components, requiring the experience and tools specially designed for this purpose. Installation and maintenance procedures for this product must be performed by a qualified service technician, to avoid potentially unsafe vehicle handling characteristics, which may result in SERIOUS INJURY or DEATH.
- Modifying your vehicle's suspension will change the handling characteristics of your vehicle. Under certain conditions, your modified vehicle may be more susceptible to loss of control or rollover, which can result in SERIOUS INJURY or DEATH. Thoroughly familiarize yourself with the modified vehicle handling characteristics before any rigorous vehicle operation. Wear protective body gear and a helmet when appropriate. Installation of vehicle roll bars or cage is highly recommended.
- Any attempt to misuse, misapply, modify, or tamper with any FOX product voids any warranty and may result in SERIOUS INJURY or DEATH.

# A WARNING

- Always use a chassis lift for the installation of any aftermarket parts, and make certain that the raised vehicle is securely attached to the lift to prevent the vehicle from slipping, falling, or moving during the installation process.
- DO NOT install any FOX product without the necessary special tools, expertise and chassis lift or you
  will subject yourself to the risk of SERIOUS INJURY or DEATH. If you elect to not use a chassis lift
  (which may result in SERIOUS INJURY or DEATH), ensure that the vehicle is: (1) on level ground, (2) that
  all tires on the ground during installation are blocked to prevent vehicle movement, (3) that at least two
  tires are on the ground at all times, and (4) that adequately secured jack stands are used to support the
  vehicle. NEVER get under the vehicle until you have checked to ensure that the vehicle will be stable
  during installation.
- Do NOT hit the aluminum knuckle on later model trucks with a hammer to separate the ball joint. Use appropriate ball joint separation tool.

Part Type	Part Number
Single Spherical Rod End Bearing	001-01-003
Single Spherical Uniball Bearing	001-00-015
Pair Spherical Uniball Bearing Cap - Black	006-00-065
Pair Spherical Uniball Bearing Cap - Orange	006-00-066
UCA Complete Rebuild Kit (X2 Control Arms)	803-04-367

• Service Kit information:

• Wheel / Tire Fitment Information:

Wheel Specification	Tire Specification	Fitment Notes
Stock Wheel	Stock Tires	Wider than stock tires on stock wheels may rub on the Billet Fox UCA when turning.
17" x 8.5" 4.5-5.75" Back Spacing	Up to 12.50" Wide Tire	Tire diameter is relative to lift height
18" x 9" 4.5-6" Back Spacing	Up to 12.50" Wide Tire	
20" x 9" 4.5-6" Back Spacing	Up to 12.50" Wide Tire	



### **UCA INSTALLATION**

#### PREPARATION

1. Please read the installation guidelines on page 5 for instructions on how to properly lift and secure the vehicle.

NOTICE: Medium-strength thread-lock is recommended on all bolts.

#### **TOOLS REQUIRED**

- Manufacturer Torque Specs
- Basic Hand Tools / Socket & Wrench Set
- Jack Stands
- Tape Measure
- Ball Joint Separator Tool
- Medium-Strength Thread Locker
- Torque Wrench

### PCM AND AIRBOX REMOVAL

- 1. Park vehicle on clean, flat, and level surface.
- 2. Block the rear wheels for safety
- 3. Disconnect battery.
- 4. In order to remove driver side UCA(Upper Control Arm) bolt, the factory airbox and PCM must first be removed.
- 5. Disconnect wire harness from air box. (Fig. 1)
- 6. Loosen the air hose clamp. (Fig. 2)



Fig. 1: Disconnect wire harness



Fig. 2: Loosen the air hose clamp



- 7. Remove Air box by pulling up and out. (Fig. 3)
- Remove PCM(Power Control Module) wire harness clip by pressing out on the clip tabs on both sides using a flat head screwdriver. (Fig. 4A, 4B)
- 9. Remove the three PCM harness connectors by flipping the 3 gray locking switches. (Fig. 5)



Fig. 3: Remove air box.



Fig. 4A: Remove PCM Clip.



Fig. 4B: Press clip tabs.



Fig. 5: Flip locking switches.

- 10. PCM harness connector 2 (Fig. 6)
- 11. PCM harness connector 3 (Fig. 7)
- 12. Remove 3 harness clips. (Fig. 8)



Fig. 6: PCM harness connector 2.



Fig. 7: PCM harness connector 3.



Fig. 8: Remove 3 harness clips.

- 13. Remove the 3 PCM bracket bolts. (Fig. 9)
- 14. Carefully remove PCM and set aside in a secure location. (Fig. 10)

#### UPPER CONTROL ARM REMOVAL

15. Remove the driver side brake line shield by pulling off carefully. (Fig. 11) PCM harness connector 2



Fig. 9: Remove PCM bolts

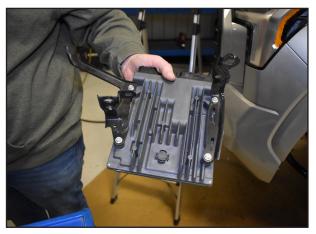


Fig. 10: Remove PCM.



Fig. 11: Brake line shield removal

- 16. Loosen the UCA bolt and nut. (Fig. 12A,12B)
- 17. Remove cotter key from ball joint. (Fig. 13)
- 18. Remove ABS line bracket bolt. (Fig. 14)



Fig. 12A: Loosen UCA hardware.



Fig. 12B: Loosen UCA hardware.



Fig. 13: Remove cotter key.



Fig. 14: Remove PCM.