



Cognito OE Replacement Upper Control Arm Kit for 2018-2021 Polaris Turbo S

INSTALL INSTRUCTIONS:

Cognito OE Replacement Upper Control Arm Kit for 2018-2021
Polaris Turbo S | SKU: 360-91027

PARTS LIST FOR SKU: 360-91061

QUANTITY	PART #	DESCRIPTION
1	80036	Control Arm Assembly, Driver
1	80037	Control Arm Assembly, Passenger
1	HP9134	Cushion Clamp Pack

PARTS LIST FOR SKU: 80036

QUANTITY	PART #	DESCRIPTION
1	8793	Control Arm Weldment, Driver
1	91127	Uni-ball/Pin Assembly
1	HARDWARE-10743-03367	Retaining Ring
1	HP9224	Bushings and Crush Sleeves

PARTS LIST FOR SKU: 80037

QUANTITY	PART #	DESCRIPTION
1	8794	Control Arm Weldment, Passenger
1	91127	Uni-Ball/Pin Assembly
1	HARDWARE-10743-03367	Retaining Ring
1	HP9224	Bushings and Crush Sleeves

PARTS LIST FOR SKU: 91127 (PRE-INSTALLED)

QUANTITY	PART #	DESCRIPTION
1	UNI-BALL-WSSX14T-F1	7/8" Uni-Ball
1	6299	Spindle Pin
1	6300	Spherical Washer
1	HARDWARE-0161339	3/8"-24 12pt Bolt
1	HARDWARE-33622	3/8" Lock Washer

**WARNING**

Please read this entire instruction sheet before beginning installation. Proper installation of these components requires a qualified mechanic. Always wear safety glasses when using power tools, and take appropriate precautions when working under a vehicle. If these instructions are not properly followed you may jeopardize your, and your passenger's safety, and severe frame, suspension or tire damage may also result from improper installation.

**PARTS LIST FOR HP9134:**

QUANTITY	PART #	DESCRIPTION
1	HARDWARE-0708753	Cushion Clamp
1	HARDWARE-10-32X5/8-SS-SHCS	#10-32 X 5/8" Bolt
1	HARDWARE-10-32-LOCKNUT	#10-32 Nylock Nut
1	HARDWARE-10-32-SS-FLATWSHR	#10 Flat Washer

INTRODUCTION

OEM Polaris control arms are lightweight and suffice for light to moderate operation. Under more aggressive use, OEM bushings, ball joints, and even the arms themselves can fail. Cognito control arms use larger bushings, uni-ball spherical bearings, and hardened stainless steel spindle pins designed to handle abuse.

Built to Last: The arms in this kit are fabricated from a hybrid of sheet metal and steel tubing, a unique design that has proven itself across the harshest of terrains.

Easy Install: These arms come fully assembled and are ready to bolt straight onto the customer's vehicle, with pre-installed uni-balls and spindle pins.

TECHNICAL INFORMATION

- These arms are direct replacements for the stock arms, retaining stock suspension travel, shock mounting, and sway bar mounting.
- Stock spindles need to be modified for this installation.

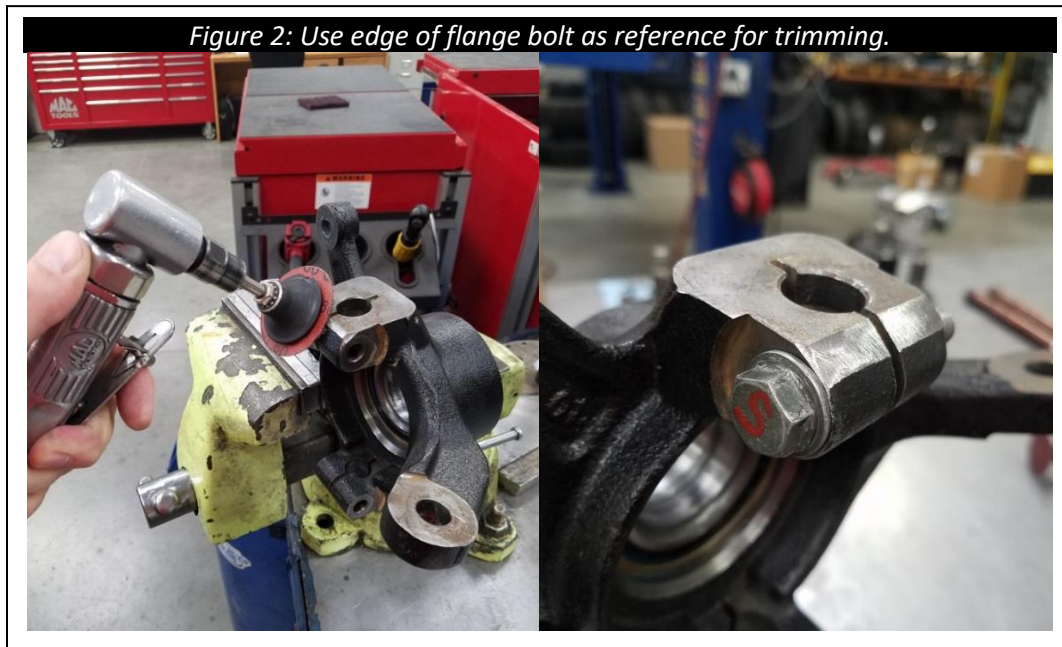
REQUIREMENTS

- Installation requires a qualified mechanic.
- Always wear safety glasses when using power tools. Some cutting is required.
- Read instructions carefully and study the pictures (if included) before attempting installation.
- Check the parts and hardware packages against the parts list to assure that your kit is complete.
- Stock spindles need to be modified for this installation.
- Follow the OE specifications when replacing or re-installing OE fasteners, retainers, and hardware.

1. Raise the front of the vehicle up by the frame until tires are off the ground. Remove front wheels.
2. OEM spindles need to be trimmed to provide clearance for Cognito control arms. See **Figure 1** for corners that need to be trimmed. Trimming has no effect on the structural integrity of the spindle. **If Cognito lower control arms have already been installed, this modification should already have been completed. Skip this step if spindles have already been modified.**
 - Unbolt brake calipers, axle nut, and control arms from spindles. Remove spindle and let remaining components hang. Retain OEM hardware; they will be reused.
 - Use air sander and remove corner material up to edge of flanged pinch bolt shown in **Figure 2**.

Figure 1: Trim indicated corners as shown.



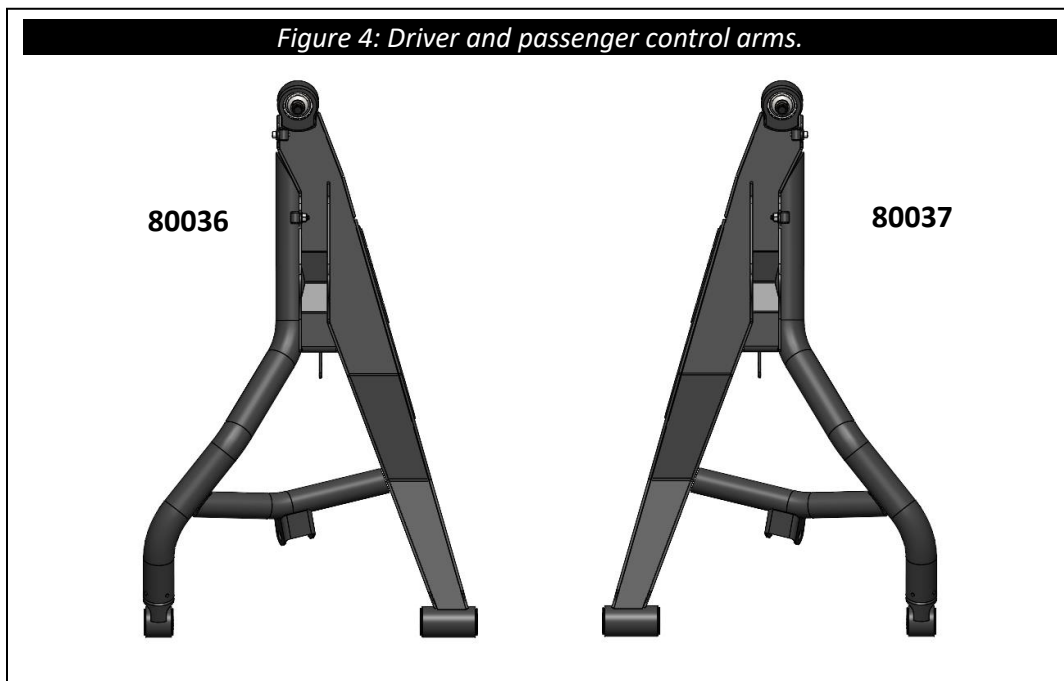
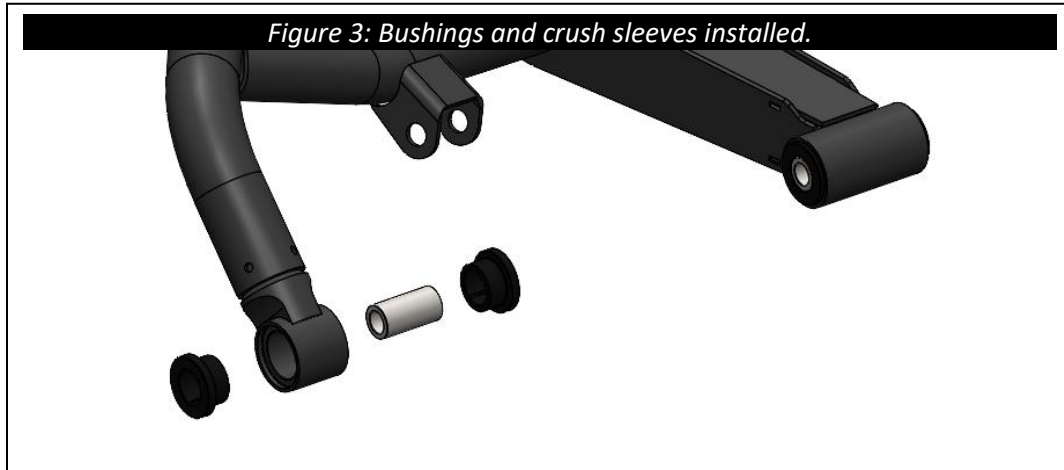


3. Unbolt shocks from upper control arms. The shocks can stay bolted to the chassis. Use a strap or bungee cord to hang the shock out of the way of work area. Retain OEM hardware; they will be reused.
4. Unfasten brake lines from OEM upper control arms. Unbolt and remove OEM arms from vehicle. Retain OEM shock hardware; they will be reused.

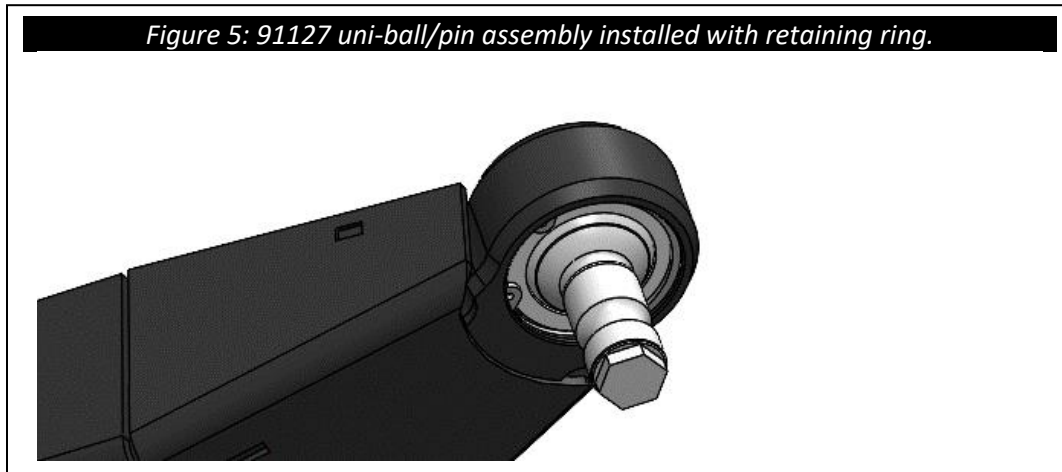
5. Locate the following:

- 1x **80036** – Assembled Arm, Driver
- 1x **80037** – Assembled Arm, Passenger

Verify installation of bushings and crush sleeves inside pivot tubes (Figure 4).



6. Verify installation of **91127** uni-ball/pin assembly and retaining ring in each arm, as shown in **Figure 5**. Retaining ring must be fully seated in groove.



7. Install **80036** onto driver (left) side of vehicle and **80037** onto passenger (right) side of vehicle with OEM pivot bolts. Torque pivot bolts to **70 ft-lbs**.
8. Reassemble axles and spindles. Torque pinch bolts on spindle to **40 ft-lbs**. Mount brake calipers and torque bolts to **40 ft-lbs**. Tighten axle nuts to **180 ft-lbs** and secure with cotter pin.
9. Locate the following:
 - 1x **Hardware Pack HP9134**
 - 4x **Cushion Clamp**
 - 4x **#10-32" x 5/8" Bolt**
 - 4x **#10-32 Nylock Nut**
 - 8x **#10 Flat Washer**

Fasten brake lines to tabs on Cognito arms using supplied hardware. These arms are designed to accommodate the locations of the bonded clamps on the stock lines. The supplied cushion clamps are only needed for aftermarket brake lines.

10. Install wheels and fully cycle suspension and steering. Ensure there is no tension on brake lines.
11. Set vehicle on ground and roll back and forth to settle suspension. Set desired ride height if adjustable. The installation is complete.



WARRANTY / RETURN POLICY / SAFETY

Cognito Limited Lifetime Warranty

Cognito Motorsports, Inc. hereinafter “Cognito,” warrants to the original retail purchaser, that its suspension products are free from workmanship and material defects for as long as the purchaser owns the vehicle on which the product(s) were originally installed. This warranty will be void if any modifications are made to the components, including alterations to the surface finish, i.e.; painting, powder coating, plating, and/or welding, or if they are improperly installed. Cognito truck suspension products are not designed nor intended to be installed on “competition” vehicles used in race applications, stunt or for exhibition purposes that are outside of the intended operating conditions specified by the manufacturer. Racing and competition are defined as any contests between two or more vehicles; or vehicles competing individually on off road circuits in timed events (whether or not such contests are for an award or prize).

This warranty does not include coverage for police, taxi, government or commercial vehicles, and the warranty does not cover Cognito products sold outside of the USA. Cognito’s obligations under this warranty are specified and applied at its sole discretion, and warranty coverage is limited to repair or replacement of the defective product(s). Any and all costs of removal, installation or reinstallation; freight charges, incidental or consequential damages associated with the covered products are expressly excluded from this warranty.

The following items are exempt from Cognito limited warranty coverage: bushings, bump stops, tie-rod ends (Heim joints) and limiting straps. These parts are “consumables” and designed to wear as a normal part of their duty cycle, therefore they are not considered defective when worn. The aforementioned products are warranted separately against defects in workmanship, for 60 days from the date of purchase. As a condition of warranty validation, respective Cognito suspension components must be installed as a complete system (not combined with non-Cognito hardware or ancillary parts). Any substitutions or omission of required components will void the warranty. Some minor cosmetic wear and imperfections may occur to parts during shipping, which is not covered under this warranty. This limited warranty does not apply to any components that have been subjected to collision damage, negligence, alteration, abuse, or misuse, and coverage does not extend to products manufactured by third-party companies. Cognito reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of its parts when deemed necessary, without notice.

Return Policy

Product returns will not be accepted without prior written approval from an authorized Cognito representative. All products being returned must be shipped via trackable, prepaid freight. Returned products are subject to a 25% percent restocking fee. The eligible return period for products purchased directly from Cognito is 30 days from the verified date when the product(s) were originally received by the purchaser.

Product Safety Advisory

The installation of Cognito steering and suspension components will modify your vehicle’s original factory equipment and geometry, which may cause it to handle differently than a stock (unaltered) vehicle. Installation of these components is not intended to strengthen nor reinforce the vehicle’s frame, nor are they designed to increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for proper attachment, torque specifications, operation, and for any potential unusual wear or damage. Installation of these parts will modify the height of the vehicle and may raise the center of gravity. Modifying vehicle height combined with off road operation may increase your vehicle’s susceptibility to rollover conditions, which may cause serious injury or death. Many states regulate allowable vehicle height modifications, and it is your responsibility to know and comply with the legal requirements specified by the laws where you reside. Modifications to your vehicle’s ride height may also affect the ride quality, driver input response, trackability and handling, and wear to your vehicle’s suspension components and tires.