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INSTALL INSTRUCTIONS:

Cognito Pitman & Idler Arm
Support Kit for 1999-2006 GM
1500 4WD Trucks & 2000-2006
GM 1500 2WD / 4WD SUVs
SKU: 110-90246 (PISK2006)

This Cognito product is protected by Utility Patent
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PARTS LIST FOR SKU: 110-90246 (PISK2006)

QUANTITY	PART #	DESCRIPTION
1	8197	Pitman arm bracket
1	8209	Idler arm bracket
1	HP9077	Hardware pack

HARDWARE PACK - HP9077

QUANTITY	PART #	DESCRIPTION
2	RODEND- CM12T-5/8-18	Rod End CM12T-5/8-18 With F-1 Fit
2	5408	Fine thread shank nuts (normally silver)
2	5402	Coarse thread shank nuts (normally gold)



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.

REQUIREMENTS

- Installation requires a qualified mechanic
- Read instructions carefully and study the pictures before attempting installation.
- Retain the removed hardware for reuse.

TECHNICAL INFORMATION

- Check the parts and hardware packages against the parts list to assure that your kit is complete before starting
- Familiarize yourself with instructions before beginning.
- It is necessary to raise the vehicle to perform installation of these products. A hoist or installation bay is recommended. Always ensure the truck is properly supported before attempting installation as serious injury could occur.

INSTALLATION

1. If there is an existing skid plate and shroud at the front cross member of the vehicle, underneath the front of the engine, they should be removed with a 15mm socket to access the pitman and idler arms and set aside for re-installation later.
2. Unscrew the factory lock nuts that hold the drag link to the pitman and idler arms, using a 21mm socket, and discard them.
3. Unscrew the large nut holding the pitman arm to the steering box using a 1 5/16" boxed end wrench. Remove it and the large lock washer. Figure 5
4. Remove the nut holding the idler arm to the idler arm pivot with a 24mm boxed end wrench. Figure 3
5. Apply a small amount of thread locker on all of the threads on both of the 5/8"x 3/4" rod ends, then thread one 5/8" jam nut all the way on to both of the rod ends. Then insert the rod end through the 5/8" diameter hole on both the pitman and idler arm brackets as shown in Figure 2. Now thread a second jam nut on to both rod ends, but do not tighten at this time.
6. Insert one lock washer over each of the drag link studs, and then install the pitman and idler arm brackets on to the pivot ends where hardware was previously removed in steps 3 and 4, at the same time place the rod end which is connected to the Cognito Motorsports brackets over the drag link studs so that the lock washer is in between the Cognito rod end and the drag link.
7. Re-install the factory lock nut on the pivot stud of the idler arm that was removed in step 4. Re-install the factory lock washer and nut on the pivot shaft of the steering box that was removed in step 3. Do not tighten yet.
8. The gold shank nuts are for factory or coarse thread arms, and the silver shank nuts are for aftermarket or fine thread arms. Apply a small amount of thread locker on the threads of the shank nuts and insert a shank nut on to each of the drag link studs, passing through the rod ends and locking against the lock washer and drag link. Jam each support bracket in between the jam nuts. Tighten shank nuts with 7/8" socket and jam nuts with both 15/16" boxed end wrenches, to 60 ft/lbs. Figure 4 & 5
9. Tighten the factory hardware mentioned in Steps 3, 4 and 7 at this time. The hardware may not accommodate clearance to use a torque wrench, but need to be tightened as tight as possible with the box end of an end wrench, roughly 70 ft/lbs on the idler arm side, and 120 ft/lbs on the large pitman arm nut.
10. Re-install any other hardware for skid plate/shroud previously removed and tighten to factory specification.

Figure 1: Support brackets assembled



Figure 2: Idler arm



Figure 3: Idler arm bracket installed



Figure 4: Pitman arm

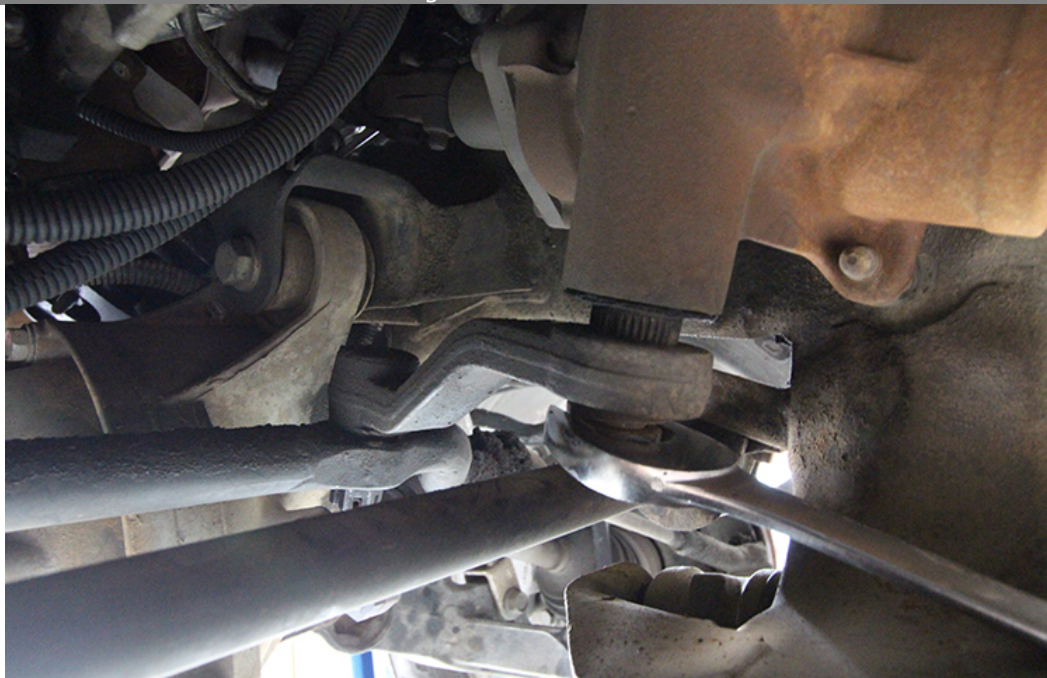


Figure 5: Pitman arm bracket installed



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 warrantied 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.