

INSTALLATION INSTRUCTIONS FOR 2000-2005 FORD 4WD EXCURSION 6" SUSPENSION SYSTEM PART NUMBER 6065

Requires the following parts for a complete installation:

- Front Leaf Springs P/N 60SD4
- Hardware Kit P/N 6000HE
- Box Kit P/N 6065B

WARNING!!! READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE PROCEEDING. MAKE SURE THAT YOU HAVE ALL TOOLS AND PARTS BEFORE BEGINNING THE INSTALLATION.

SPECIAL TOOLS REQUIRED:

- STEERING (PITMAN) ARM PULLER
- TIE ROD SEPARATING TOOL
- TORQUE WRENCH
- FORD SERVICE MANUAL

REVTEK SUSPENSION RECOMMENDS THAT RED LOCTITE BE USED ON ALL FASTENERS UNLESS OTHERWISE NOTED. IT IS ALSO RECOMMENDED TO HAVE THE FRONT END ALIGNMENT CHECKED AFTER INSTALLATION.

GENERAL NOTES:

- 1. THIS SYSTEM SHOULD ONLY BE INSTALLED BY A PROFESSIONAL.
- 2. Compare all contents of the boxes to the parts list before starting to insure all components are included.
- 3. Prior to installing the suspension system, inspect the vehicle's suspension components, alignment, and frame for damage, corrosion, or cracks. Correct any worn or damaged parts before beginning install.
- 4. Always wear safety glasses during installation
- 5. On most vehicles, removal of the front bumper may be necessary in order to remove front spring eye bolts.
- 6. Install all nuts and bolts with a flat washer on both sides.
- 7. Unless otherwise noted, tighten all bolts to the torque specifications listed in the Torque Specification table included in these instructions. Use a torque wrench.
- 8. Estimated time to install this system is 6 hours.
- 9. Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature failure of the bushing and maintain ride comfort
- 10. Check off the step number at the beginning of each step when you finish it. Then when you stop during the installation, it will be easier to find where you need to continue from.

<u>KIT CONTENTS INCLUDE:</u>

- Instructions including parts list
- Product Safety Label (orange)
- Decal
- Warranty Information

PARTS LIST INCLUDED IN KIT

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6" EXCURSION FRONT SPRING 2

HARDWARE KIT – 6000HE

| REAR 5" CAST BLOCKS | 2 |
|-----------------------------------|---|
| REAR 5/8 X 3 5/8 X 14 1/2 U-BOLTS | 4 |
| 5/8" HIGH NUT | 8 |
| 5/8" FLAT WASHER | 8 |
| FRONT SHOCKS WITH BLACK | 2 |
| BOOTS | |

BOX KIT -- 6065B -- WITH SEMI ROUND FRONT U-BOLTS

| KOULD I KOLLI U DOLLO | |
|--|---|
| PITMAN ARM (FD500) | 1 |
| ¹ / ₂ - 13 GRADE C ALL METAL LOCKNUT | 1 |
| (ZINC) | |
| 1/2' FLAT WASHER (ZINC) | 6 |
| ¹ / ₂ - 13 X 3 ¹ / ₄ GRADE 8 HEX BOLT (ZINC) | 1 |
| REAR SHOCKS W/BAR PIN | 2 |
| 9/16 FLAT WASHER | 8 |
| 9/16 HIGH NUT | 8 |
| 9/16 X 3 1/8 X 9" SEMI ROUND U-BOLT | 4 |
| TRACK ARM BRACKET – LG HOLE | 1 |
| ¹ / ₂ - 13 X 2" GRADE 8 BOLTS (ZINC) | 2 |
| ¹ / ₂ - 13 NYLOCK NUTS (ZINC) | 2 |
| SWAY BAR SUPPORT BRACKETS | 2 |
| ADD-A-LEAFS | 2 |
| ADD-A-LEAF NUT | 2 |
| ADD-A-LEAF PIN | 2 |

| STANDARD BOLT TORQUE & IDENTIFICATION | | | | | | | | |
|---|--------------|--------------|---------------|--------------|--------------|--------------|--|--|
| INCH SYSTEM | | | METRIC SYSTEM | | | | | |
| Bolt Size | Grade 5 | Grade 8 | Bolt Size | Class 9.8 | Class 10.9 | Class 12.9 | | |
| 5/16 | 15 ft. lbs. | 20 ft. lbs. | M6 | 5 ft. lbs. | 9 ft. lbs. | 12 ft. lbs. | | |
| 3/8 | 30 ft. lbs. | 35 ft. lbs. | M8 | 18 ft. lbs. | 23 ft. lbs. | 27 ft. lbs. | | |
| 7/16 | 45 ft. lbs. | 60 ft. lbs. | M10 | 32 ft. lbs. | 45 ft. lbs. | 50 ft. lbs. | | |
| 1/2 | 65 ft. lbs. | 90 ft. lbs. | M12 | 55 ft. lbs. | 75 ft. lbs. | 90 ft. lbs. | | |
| 9/16 | 95 ft. lbs. | 130 ft. lbs. | M14 | 85 ft. lbs. | 120 ft. lbs. | 145 ft. lbs. | | |
| 5/8 | 135 ft. lbs. | 175 ft. lbs. | M16 | 130 ft. lbs. | 165 ft. lbs. | 210 ft. lbs. | | |
| 3⁄4 | 185 ft. lbs. | 280 ft. lbs. | M18 | 170 ft. lbs. | 240 ft. lbs. | 290 ft. lbs. | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | |
| G= Grade Marking (bolt strength) L= Length (inches) P= Property Class (bolt strength) L= Length (millimeters) D= Nominal Diameter (inches) X= Description (hex head cap screw) D= Nominal Diameter (millimeters) X= Description (hex head cap screw) T= Thread Pitch (threads per inch) T= Thread Pitch (thread width, mm) T= Thread Pitch (thread width, mm) | | | | | rew) | | | |

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FRONT OF VEHICLE – DISASSEMBLY AND ASSEMBLY

- 1. Park vehicle on level, hard (concrete) surface.
- 2. Block the rear wheels of the vehicle to prevent vehicle from moving and set parking brake.
- 3. Remove front bumper by removing (2) outer 13mm brace bolts and the (4) 18mm bolts from front of bumper.

If the vehicle contains a crash bar below the bumper, it must be removed. To accomplish this, remove the (6) 21mm nuts.

While supporting the bumper, disconnect the (2) lighting harness plugs and wiring harness from bumper (if applicable), and the (3) plastic push clips in the rubber shield. Carefully remove bumper, making sure not to scratch the paint on the front fenders.

- 4. To make access to spring eye bolts, remove (2) 8mm bolts at the lower corner supports of air conditioning cooler and remove supports. See Illustration 1.
- 5. Remove the track bar bolt (30 mm) (save for later use) on the driver side of the frame mount (see illustration 2), and the tie rod end from the pitman arm.
- 6. Raise the front of vehicle and support with jack stands on the frame behind the front springs.
- 7. Remove the front wheels.
- 8. Support the front axle with a floor jack.
- 9. Remove sway bar end links on both sides. Save the 15mm bolts, to use for reassembly.
- 10. Remove front shocks (saving bolts for reinstallation).
- 11. Carefully bend brake line bracket at frame to horizontal position (see illustration 3).
- 12. While supporting front differential with a floor jack, remove driver side U-bolts.

TECH TIP: Factory spring bolts are secured with loctite, which makes removal difficult. By warming the nut with a propane torch to approx. 300 degrees Fahrenheit, the loctite will release and the hardware can be removed with hand tools. (WARNING: Have Fire Extinguisher handy whenever using a open flame on or near any vehicle.)

13. Remove front driver side leaf spring front nuts (27mm) and rear nuts (21mm), leaving spring eye bolts in place.

- 14. Lower axle to clear spring. Remove spring bolts and spring.
- 15. Install new Revtek spring using existing hardware. DO NOT TIGHTEN.
- 16. Raise axle to spring and secure with new 9/16" U-bolts and nuts supplied, making sure center pin is seated properly.
- 17. Repeat steps 12 16 on passenger side

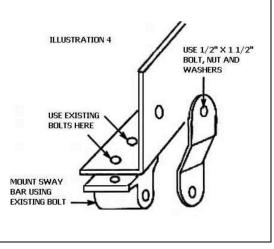




FRONT OF VEHICLE – DISASSEMBLY AND ASSEMBLY (Continued)

TECH TIP for TRACKBAR BRACKET: The two 15mm bolts are secured with loctite, which makes removal difficult. By warming the nut with a propane torch to approx. 300 degrees Fahrenheit, the loctite will release and the hardware can be removed with hand tools. (WARNING: Have Fire Extinguisher handy whenever using an open flame on or near any vehicle.)

- 18. Remove OEM cast track bar bracket on driver side. Save the (2) 15mm bolts for later reuse.
- 19. Use a pitman arm puller to remove the pitman arm.
- 20. Install new pitman arm using red loctite. Torque to 185 ft./lbs.
- 21. Install Revtek track bar bracket. Use existing bolts and pal nuts on frame and use new ½" bolt in cross member. Install ½" bolt from front of vehicle and use flat washers under head of bolt and nut. Torque bolts to 90 ft./lbs.
- 22. Remove upper sway bar mounts from inside of frame on both sides. Relocate under frame using OEM hardware (see illustration 4). Install provided sway bar support brackets, using ¹/₂" x 2" bolts, nuts and washers. Torque to specs.
- 23. Install new Revtek shocks, P/N R2615, and torque mounting hardware to specs.
- 24. Install drag link to pitman arm utilizing new cotter pin and torque to specs.
- 25. Install tires. Set vehicle on ground and torque wheels to factory specs.
- 26. Install sway bar end links using OEM hardware.
- 27. Tighten spring eye mounting bolts. Torque to spec.
- 28. Install track bar into new mount using OEM 30mm bolt. Torque to 135 ft. /lbs.
- **TECH TIP**: Turning steering slightly will help align bolt.
- 29. If bumper was removed, reinstall air conditioning cooler supports and then reinstall bumper by reversing steps 3 and 4, then torque to spec.



REAR OF VEHICLE – disassembly and assembly

- 1. Block front wheels to prevent vehicle from moving in either direction.
- 2. Lift the vehicle from the center of the rear differential housing, leaving the jack in place to support the differential.
- 3. Support the frame with jack stands forward of the rear springs.
- 4. Remove rear wheels and shocks.
- 5. Remove the U-bolts and anchor plate on driver side only.
- 6. Carefully lower the floor jack, while watching for brake line extension.
- 7. Loosen the nut on the bolt holding the shackle to the spring. Remove the shackle to rear bracket bolt and the spring to front bracket bolt. Remove the spring assembly from the vehicle.
- 8. Clamp the spring assembly securely together with two C-clamps or a large bench vise.
- 9. Loosen the nut and remove the center bolt. If necessary, hold the head of the center bolt with locking pliers. Do not remove the spring clips, but the forward spring clip will need to be opened up.
- 10. Carefully remove the C-clamps or loosen the vise.

NOTE: Removing and installing a leaf may require the use of a soft mallet, and lightly clamping sections of the spring pack to relieve binding.

- 11. Insert the new leaf into the spring pack, placing it below #2 leaf.
- 12. Center the leaves and align the center holes with a drift punch. Reposition the helper spring and install the NEW center bolt and nut.
- 13. Reinstall the C-clamps, or use a vise, to squeeze the spring pack. Tighten the center bolt to 20 ft-lbs.
- 14. Reinstall the spring assembly (shackle in the rear) and loosely attached it to the frame brackets with the original hardware. Align the center bolt with the hole in the new 5" lift block, making sure that the small end of taper on the block faces toward the front of the vehicle.
- 15. Install the anchor plate and the new U-bolt hardware. Torque U-bolts to specs.
- 16. Repeat steps 5 through 15 for the other side.
- 17. Install Revtek shocks P/N R3319 and torque hardware to specs.
- 18. Cut off excess u-bolt to prevent body damage, if applicable.
- 19. Install tires and lower vehicle to ground. Torque wheels to factory specs.
- 20. Tighten both front and rear spring pivot bolts, and the shackle bolts to 80 ft-lbs.
- 21. CHECKS AND ADJUSTMENTS:
 - Check all hardware for tightness after 100 miles and after off road use.
 - Headlights should be adjusted.
 - Vehicle must be aligned.

PRODUCT SAFETY LABEL MUST BE INSTALLED INSIDE CAB IN PLAIN VIEW OF ALL OCCUPANTS

Important Installation Notes:

- Manufacturing tolerances do create certain variations that we cannot fully account for. At times you may need to use a punch, or pry bar to get holes to line up. Also you may need to slightly enlarge a hole to create a proper alignment. These are all normal situations.
- Altering your suspension may change the way your vehicle handles. Care must be taken to operate your vehicle safely.
- Adding large wheels and tires, will change how your suspension operates. It may put extra strain on certain components causing them to wear sooner than normal.
- While every effort is made to design our kits to work within factory geometry, there are situations where additional alignment tools like adjustable or replacement components may be needed. This is normal.
- It is possible when changing the driveline angles that a vibration may occur, and require an adjustment to repair this situation.
- Other modifications may be needed due to optional equipment on the vehicle or other prior modifications that have been made.
- All fasteners should be checked and retightened after 500 miles. After the initial recheck, they should be checked and tightened as needed with every following service.
- Once the installation is complete a thorough road test should be performed to verify proper clearance of all items.
- Revtek Suspension kits are designed for race applications.
- Altering the suspension on your vehicle may change the characteristics of some systems such as: fuel economy, transmission shift points, etc.
- While Revtek systems are designed to work within all factory specifications and tolerances, there are
 some situations where exceeding the capability of the vehicle such as load capacity or speed will result in
 some undesirable results. If you overload your vehicle it will not handle correctly. If you drive or turn
 with excessive speed your vehicle will handle differently and some onboard vehicle systems may detect
 this and take appropriate action.
- Our tire and wheel fitments are only a guideline. Different production times or tolerances will vary and this sizes should only be used as a starting point. Each vehicle is different and will need to be treated as such.
- Our lift heights can vary slightly based on manufacturing tolerances. Some vehicles will exhibit slightly
 different amounts of lift heights and different final heights. Every vehicle is not identical and every
 vehicle will not be perfectly the same at all four corners.
- Once your vehicle is lifted components may wear faster, this is normal. A lifted vehicle is exerting more stress on most components and therefor causing them to wear faster.
- After altering the height of your vehicle, you should aim the headlights for proper coverage.
- The use of Loctite on fasteners is highly recommended.



Limited Lifetime Warranty

Revtek Suspension products are warranted to be free from material and workmanship defects for as long as the original retail purchaser owns the vehicle upon which such products were originally installed (proof of purchase required). The consumer will be responsible for removing from the vehicle and returning any defective item, freight prepaid, and for reinstallation. This warranty is non-transferable. Revtek Suspension's limit of liability under this warranty is to repair or replace the product at Revtek Suspension's option. Consequential costs such as, but not limited to labor fees, loss of use, loss of time or freight charges are not covered. Any product that has been abused, altered incorrectly installed, or used in competition is not covered. Product finish is excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered. The warranty is void if the "Warning to Driver" decal is not properly displayed on the vehicle. No other warranties are expressed or implied. We reserve the right to make changes in design, materials, and specifications without prior notice.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages, the above limitation or exclusion may not apply to you.

Other than stated above, there are no warranties.

SELLER DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY

SELLER DISCLAIMS ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE

This warranty to be free from material and workmanship defects shall not apply to any product which has been improperly installed modified or customized and does not apply to any components used for racing purposes or racing type activities.

To make a claim under this warranty to be free from material and workmanship defects, contact Revtek Suspension about the problem prior to removing any parts from the vehicle. If it appears that the part is warrantable, you will be given a Return Authorization (RA) number and asked to return the part freight prepaid. If the part is found to be warrantable, it will be repaired or replaced and returned to you. All freight charges are the customer's responsibility. If a replacement part is needed before the part in question can be returned, you must first purchase the replacement part. Then if the part in question is deemed warrantable, you will be credited / refunded.

Shocks and bushings are considered to be wear items. As such, they will be covered for a period of 12 months from the original installation. Any failure outside of 12 months will be considered typical wear.

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