

Quadratec® 2" Spacer Lift Kit

Installation Manual: for 1984-2001 Cherokee (XJ)

#16400.005X



PARTS LIST:

1.75" Front Coil Spacers - QTY 2
XJ Rear Shackle - QTY 2
Shackle Bushings - QTY 4
Shackle Sleeves - QTY 2
Zerk Fittings - QTY 2
10mm x 20mm Bolts - QTY 2
Front Shocks - QTY 2
Rear Shocks - QTY 2

REQUIRED TOOLS:

Safety Glasses
Torque Wrench
T40 Torx Socket
½" Socket or Wrench
13mm Deep Well Socket
9/16" Socket & Open End Wrench

REQUIRED TOOLS: CONTINUED

15mm Socket & Open End Wrench
17mm Socket
21mm Socket & Open End Wrench
Side Cutters

⚠ WARNING ⚠

TO REDUCE RISK OF SERIOUS INJURY OR PROPERTY DAMAGE: READ ALL SAFETY MESSAGES AND UNDERSTAND ALL INSTRUCTIONS AND PROCEDURE NOTICES BEFORE ATTEMPTING TO INSTALL OR USE THIS PRODUCT. FOLLOW ALL INSTRUCTIONS AND WARNINGS WITH PRODUCT & VEHICLE OWNERS MANUAL.

⚠ WARNING ⚠

THIS KIT INCLUDES A COCKPIT SAFETY WARNING STICKER REGARDING INCREASED ROLLOVER RISK. THIS STICKER MUST BE AFFIXED IN THE COCKPIT, VISIBLE TO ALL VEHICLE OCCUPANTS AT ALL TIMES.

⚠ CAUTION ⚠

RISK OF EYE INJURY! SAFETY GLASSES MUST BE WORN AT ALL TIMES WHILE INSTALLING OR MAINTAINING THIS PRODUCT. TORQUE AND RECHECK FASTENERS AFTER 250 MILES AND FREQUENTLY THEREAFTER. DO NOT USE IF DAMAGED.



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A Few Words About Product Safety:

Your Quadratec Suspension product is intended to enhance the utility and enjoyment of your off road capable vehicle. Before installation, please review the following safety information and installation recommendations.

Throughout these instructions important safety information is generally preceded by one of three signal words indicating the relative risk of injury, property damage or adverse consequence. **The signal words mean:**

⚠ WARNING ⚠	a hazardous situation which, if not avoided, could result in death or serious injury. You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.
⚠ CAUTION ⚠	a hazardous situation which, if not avoided, could result in minor or moderate injury. You CAN be moderately HURT and also may suffer property damage if you don't follow instructions.
NOTICE	Careful attention is required to this instruction or operation but does generally not relate to personal injury. Damage to your Quadratec® product or other property may result if you don't follow instructions.

Before You Begin Installation:

Congratulations on your purchase of the Quadratec 2" Spacer Lift Kit for 1984-2001 XJ Cherokee Vehicles. When unpacking, check to make sure all

parts are included and not damaged due to shipping. If any part is missing or broken, please call Customer Service at 800-745-6037 as soon as possible.

IMPORTANT PRODUCT SAFETY TIPS

⚠ WARNING ⚠	INSTALLATION OF THIS PRODUCT ON YOUR JEEP® WILL MODIFY AND ENHANCE ITS SUSPENSION AND OFF-ROAD PERFORMANCE. IT MAY HANDLE DIFFERENTLY THAN AS FACTORY-EQUIPPED INCLUDING; INCREASED RIDE-HEIGHT; REDUCED LATERAL STABILITY; AND HIGHER RISK OF ROLL-OVER OR OTHER ACCIDENT. ALSO, OWNER'S CHOICE OF LARGER TIRE/WHEEL COMBINATIONS MAY REQUIRE ADDITIONAL PEDAL PRESSURE OR INCREASED DISTANCE TO STOP; CAUSE SPEEDOMETER TO READ SLOW AND MAY REDUCE VISIBILITY AROUND THE VEHICLE. CHOICE OF TIRE/WHEEL COMBINATIONS OTHER THAN AS TESTED OR RECOMMENDED MAY COMPROMISE FMVSS 126 COMPATIBILITY.
⚠ WARNING ⚠	FAMILIARIZE YOURSELF WITH VEHICLE HANDLING AND REVIEW ALL VEHICLE MANUFACTURERS AND QUADRATEC® WARNINGS, INSTRUCTIONS AND LIMITED WARRANTIES BEFORE DRIVING A MODIFIED SUSPENSION JEEP®. FOLLOW ALL RECOMMENDED MAINTENANCE PROCEDURES AND ROUTINELY INSPECT YOUR VEHICLE COMPONENTS FOR UNUSUAL WEAR OR OFF-ROAD DAMAGE.
⚠ WARNING ⚠	DO NOT DRIVE UNDER ANY SPEED OR MANEUVERING CONDITIONS WHICH MAY CAUSE THE VEHICLE TO TRIP, ROLL, LOSE TRACTION OR COMPROMISE YOUR ABILITY TO SAFELY BRAKE IN AN EMERGENCY. QUADRATEC® DOES NOT RECOMMEND COMBINED USE OF SUSPENSION KITS, BODY LIFTS, OTHER LIFTING DEVICES OR COMPONENTS ALTERING THE INTENDED RIDE-HEIGHT OR FUNCTION OF ITS PRODUCTS. MANY STATES HAVE LAWS RESTRICTING THE EXTENT OF VEHICLE MODIFICATIONS. OWNER/DRIVER IS RESPONSIBLE FOR MODIFICATIONS CONSISTENT WITH STATE LAWS AND GOOD SENSE.



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IMPORTANT PRODUCT SAFETY TIPS



QUADRATEC® RECOMMENDS PROFESSIONAL INSTALLATION OF THIS PRODUCT.



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REQUIRED TOOLS: CONTINUED

15mm Socket & Open End Wrench
17mm Socket
21mm Socket & Open End Wrench
Side Cutters



PARK THE VEHICLE ON FLAT, LEVEL GROUND AND SET EMERGENCY BRAKE. ALWAYS SUPPORT FRAME RAILS USING JACK STANDS.

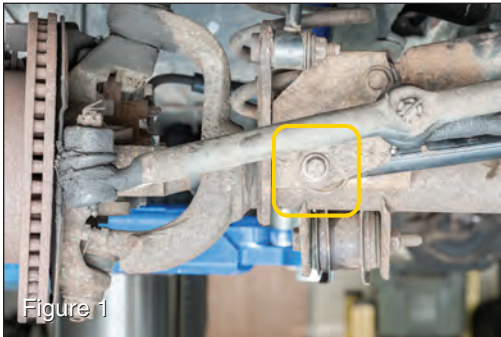
Caution: In preparation to install, park the vehicle on flat, level ground and set emergency brake. Put on safety glasses. Raise the front of the vehicle and support frame rails using jack stands.

Do not lower the axle at this time.
Remove front tires/wheels.

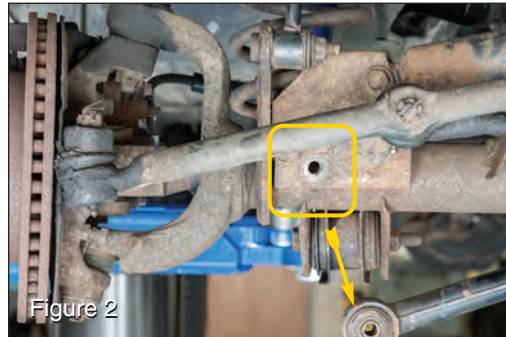


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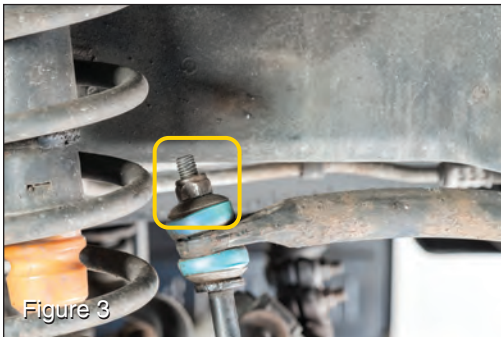
2" Spacer Lift Kit Installation: Front



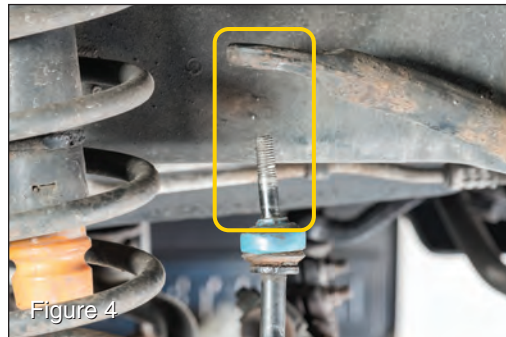
Put on safety glasses. First, disconnect the front track bar using the 1/2" drive



ratchet with a 15mm socket as shown above. (see FIG 1 & 2)



Proceed to disconnect the front sway bar end links at the top using the 1/2"



drive ratchet with a 15mm socket as shown above. (see FIG 3 & 4)

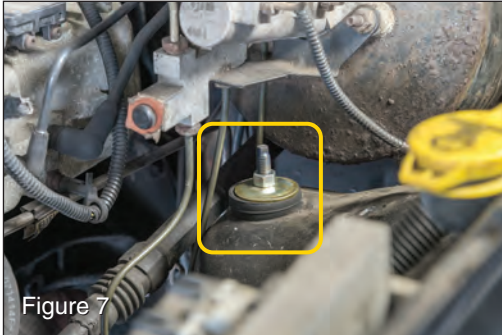


Disconnect the bottom end of the front shocks using a 13mm deep well socket and open end wrench. (see FIG 5 & 6)

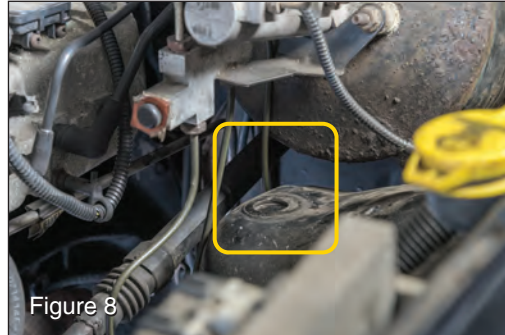


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2" Spacer Lift Kit Installation: Front



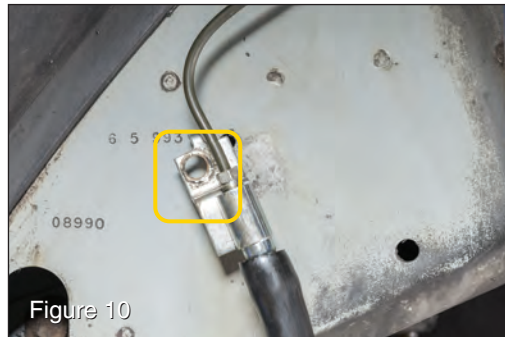
Locate upper shock mount stem and remove using 15mm socket or wrench.



(see FIG 7 & 8) Discard front shocks.



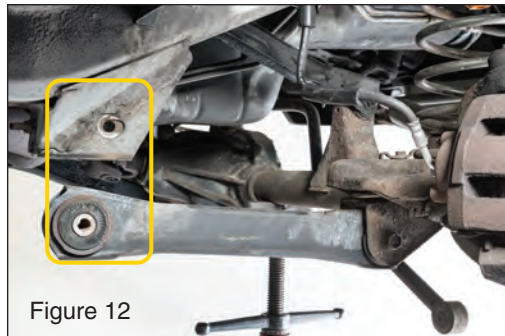
Disconnect brake line brackets from frame using a T40 Torx socket.



(see FIG 9 & 10)



Locate lower control arms and remove frame side bolts using a 21mm socket and open end wrench. (see FIG 11 & 12)



This will allow you to easily remove the coil springs safely.



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2" Spacer Lift Kit Installation: Front



Figure 13

Locate and remove the coil spring retainers using a ratchet and a 13mm

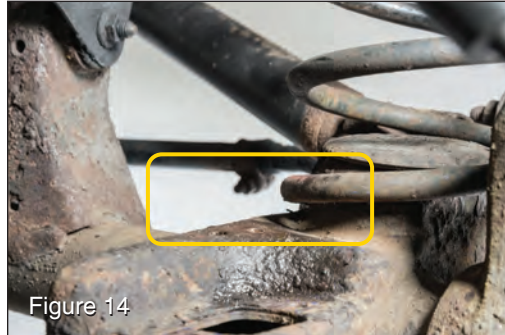


Figure 14

socket as shown above. (see FIG 13 & 14)

⚠ CAUTION ⚠

THE COIL SPRINGS MAY BE UNDER TENSION. REMOVE CAREFULLY.

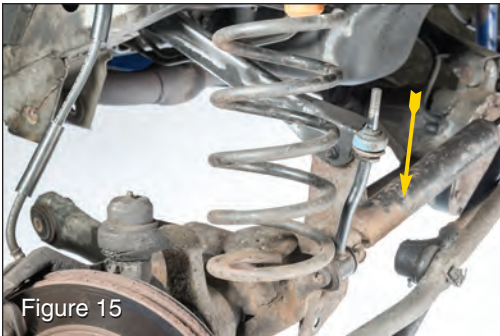


Figure 15



Figure 16



Figure 17



Figure 18

Gently lower axle housing towards the ground and remove original coil springs. (see FIG 15)

Slide down original coil spring isolator and install included coil spring spacer on top as shown. (see FIG 16 & 17)

Re-install coil springs and index on bottom mount as shown. (see FIG 18)



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2" Spacer Lift Kit Installation: Front



Figure 19



Figure 20

Locate & assemble front shocks as shown (see FIG 19, 20 & 21).



Figure 21



Figure 22

Install front shocks into original opening at top mount and tighten securely a 9/16" socket or wrench. (see FIG 22)

Raise the axle using a floor jack enough so that the control arms can be reattached to the frame loosely at this time.

Next raise the axle so the full weight of vehicle is on the newly installed coil springs. Re-attach brake line bracket to frame. Re-attach front sway bar end links to sway bar and tighten securely. (see FIG 23) Using factory hardware, re-attach the bottom end of the shock and torque to 21 ft lbs. Install wheels/tires and torque to 105 ft lbs.



Figure 23

Finally, remove jack stands and lower vehicle onto the ground. Re-attach track bar using factory hardware and torque to 74 ft lbs. and then torque Control Arm bolts to 133ft lbs.

Prepare to work on vehicle rear:

At this point, you may now prepare to work at the back end. Block the front wheels, raise the rear of the vehicle & support frame rails securely using jack stands. Remove the rear tires / wheels.



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2" Spacer Lift Kit Installation: Rear



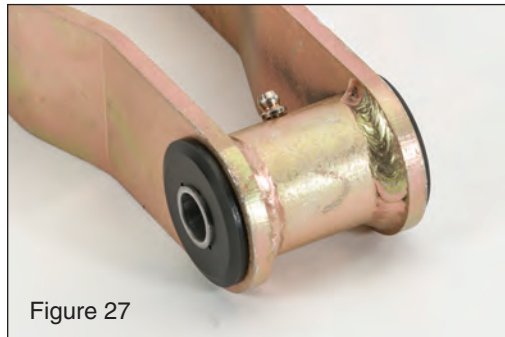
Remove the original shocks at the bottom using a 18mm socket, (see FIG 24)



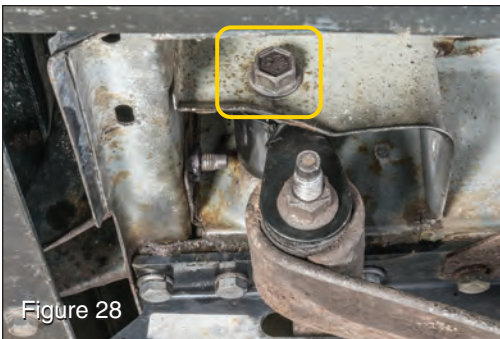
and the top using a 13mm socket. (see FIG 25) Discard rear shocks.



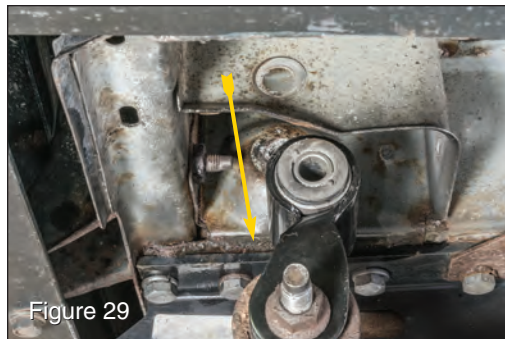
Using a 1/4" socket and hammer, gently tap the grease fitting into the hole drilled in each shackle. (see FIG 26)



Insert a poly bushing half into each side & press a steel sleeve into the bushings. (see FIG 27)



Remove the shackle bolts from the frame using a 21mm socket and lower the axle



to drop the shackle out of the frame. (see FIG 28 & 29)

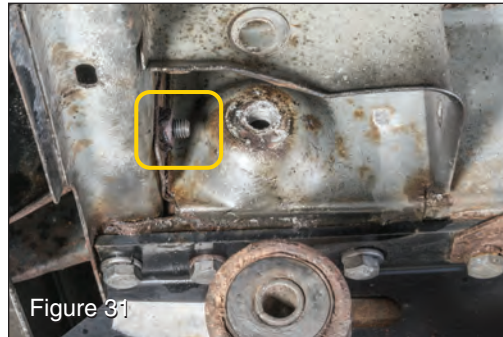


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2" Spacer Lift Kit Installation: Rear



Disconnect the rear of the leaf spring from the original shackle using a 21mm socket and wrench. (see FIG 30) Note: allow the axle to come down far enough to gain access to the shackle. The OEM upper most inner bumper bolts on each side of the frame are too



long and interfere with the new shackles supplied. Therefore, remove the upper most inner bumper bolts on each side of the frame using a 15mm socket and replace them with the shorter 10mm x 20mm bolts supplied using a 17mm socket. (see FIG 31)



Install the new shackles using the original hardware. Re-attach to leaf springs using the original hardware. (see FIG 32) Note: Do not tighten at this time. Note: Orientation of grease fitting.



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2" Spacer Lift Kit Installation: Rear



Figure 33



Figure 34



Figure 35



Figure 36

Locate and assemble rear shocks as shown (see FIG 33, 34 & 35). Install into original opening at top mount and torque to 20ft lbs. Slide shocks onto lower axle mounts and tighten securely using the original hardware. (FIG 36)

Install the rear wheels and tires and lower vehicle to the ground. Finally, Tighten all shackle bolts to 109ft lbs.

Re-torque all the bolts after the first 100 miles of driving.

⚠ WARNING

COMPLETE INSTALLATION BY DOUBLE CHECKING THAT ALL NUTS AND BOLTS ARE TIGHT. CAREFULLY INSPECT AND CONFIRM CLEARANCE OF CHOSEN TIRE/WHEELS THROUGH FULL STEERING SWEEP AND SUSPENSION TRAVEL. ASSURE BRAKE LINES CLEAR AND NOT RUBBING AGAINST ANY SURFACE, ABS FITTINGS AND OTHER FASTENERS SECURED. HAVE ALIGNMENT SETTINGS CHECKED AND RE-ALIGN AT SHOP WITH EQUIPMENT SUITED FOR MODIFIED SUSPENSION JEEP VEHICLES. RE-ADJUST HEADLIGHTS.

⚠ WARNING

INSTALL COCKPIT WARNING STICKER ON VISOR OR OTHER LOCATION VISIBLE TO ALL DRIVERS.



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2" Spacer Lift Kit Installation: Post Checks

⚠ WARNING 

FAILURE TO DRIVE THIS VEHICLE SAFELY MAY RESULT IN SERIOUS INJURY OR DAMAGE. This Jeep® has been modified to enhance its suspension and offroad performance. It may handle differently than as factory-equipped including: increased ride-height; reduced lateral stability; and higher risk of roll-over or other accident. Also, owner's choice of larger tire/wheel combinations may require additional pedal pressure or increased distance to stop; cause speedometer to read slow and may reduce visibility around the vehicle. Choice of tire/wheel combinations other than as tested or recommended may compromise FMVSS 126 compatibility.

Do not drive under any speed or maneuvering conditions which may cause the vehicle to trip, roll, lose traction or compromise your ability to safely brake in an emergency. Quadratec® does not recommend combined use of suspension kits, body lifts, other lifting devices or components altering the intended ride-height or function of its products. Many states have laws restricting the extent of vehicle modifications. Owner/Driver is responsible for modifications consistent with state laws and good sense.

Familiarize yourself with vehicle handling and review all vehicle manufacturers and Quadratec® warnings, instructions and limited warranties before driving this modified suspension Jeep®. Follow recommended maintenance procedures and routinely inspect your vehicle components for unusual wear or offroad damage.

PLEASE DRIVE SAFELY AND ALWAYS FASTEN SEAT BELTS.

Install cockpit warning sticker on visor or other location visible to all drivers and occupants.



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Quadratec® Exclusive Limited Lifetime Warranty

Your Quadratec® branded accessories are covered by the following **Limited Warranty** provided exclusively by Quadratec, Inc., 1028 Saunders Lane, West Chester PA 19380.

This Limited Warranty is the only warranty made in connection with your purchase. Quadratec neither assumes nor authorizes any vendor, retailer or other person or entity to assume for it any other obligation or liability in connection with this product or Limited Warranty. This Limited Warranty does not apply and is not cumulative to any accessory or part distributed by Quadratec for which the Manufacturer provides a separate written warranty.

What is Covered: Subject to the terms, exclusions and limitations herein and with respect only to Quadratec branded accessories first sold in the United States, Quadratec warrants to the initial retail purchaser only that your Quadratec accessory shall be free of defects in material and workmanship: **for as long as the original purchaser owns the vehicle. The Warranty on bushings and other serviceable wear items (including shock absorbers) is limited to 1 year from date of retail purchase.** This Limited Warranty is not assignable and shall terminate upon sale of the vehicle upon which the Quadratec accessory is installed or other transfer third persons.

All other warranties are hereby disclaimed, except to the extent prohibited by applicable law in which case any implied warranty of merchantability or fitness for a particular purpose on this limited to **for as long as the original purchaser owns the vehicle.** Quadratec reserves the rights to: (a.) require invoice or other proof your accessory is within the terms of this Limited Warranty as a condition of warranty service and, (b.) make future revisions to this product and Limited Warranty without prior notice or obligation to upgrade your product.

What is Not Covered:

Your Quadratec Limited Warranty does not cover products or parts Quadratec determines to have been damaged by or subjected to: (a.) installation damage, alteration, modification, combination with other parts, failure to maintain or improper repair or service, (b.) defects or use which pre-dates installation of Quadratec® accessory

or suspension kit by authorized dealer or shop, (c.) normal wear & tear or gradual reduction in expected performance of vehicle or components, (d.) emissions control or electronic stability systems or components, (e.) cosmetic damage or damage from moisture or water immersion, (f.) fleet, rental or commercial use, (g.) Acts of God, accidents, misuse, negligence, inadequate mounting or impact with vehicle(s), obstacles or other aspects of the environment, (h.) theft, vandalism or other intentional damage. (i.) use in competition or racing.

Other Exclusions: Surface finish of exposed suspension components is not covered under this Limited Warranty.

Remedy Limited to Repair/Replacement:

The exclusive remedy provided hereunder shall, upon Quadratec inspection and at Quadratec's option, be either repair or replacement of product or parts (new or refurbished) covered under this Limited Warranty. Customers requesting warranty consideration should first contact Quadratec to obtain a RGA number (610-701-3336). All labor, removal, shipping and installation costs are customer's responsibility.

Other Limitations - Exclusion of Damages - Your Rights Under State Law:

In consideration of the purchase price paid, neither Quadratec nor any independent Quadratec distributor/licensee are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased. Your exclusive remedy hereunder for covered parts is repair/replacement as described above.

This Limited Warranty gives you specific rights. You may also have other rights that vary from state to state. For example, some states do not allow limitations of how long an implied warranty lasts and /or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you.

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