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**2022-Current TOYOTA TUNDRA 2WD
CSS-T1-5
3" SPINDLE KIT**

READ THE FOLLOWING NOTES PRIOR TO INSTALLATION

DO NOT ALTER THE FINISH OF ANY COMPONENTS. CHANGING THE FINISH SUCH AS CHROMING, ZINC-PLATING, OR ANY TYPE OF PAINTING CAN CAUSE STRUCTURAL FATIGUE OF COMPONENTS.

PRIOR TO INSTALLATION, COMPARE THE PARTS LIST WITH THE COMPONENTS RECEIVED IN THE KIT. IF ANY PIECES ARE MISSING PLEASE CONTACT YOUR LOCAL RETAILER OR CST PERFORMANCE SUSPENSION AT 951-571-0212, AND YOU WILL BE TAKEN CARE OF IN A TIMELY MANNER.

READ ALL INSTRUCTION FROM START TO FINISH BEFORE BEGINNING INSTALLATION. IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED, SEVERE FRAME, TIRE, OR SUSPENSION DAMAGE MAY RESULT TO THE VEHICLE. IF YOU INCUR A PROBLEM DURING THE INSTALLATION OF THIS KIT, FIRST BE SURE YOU HAVE FOLLOWED THE INSTRUCTION FROM START TO FINISH ACCURATELY AND IF SO PLEASE CALL 951-571-0212; WE WILL DO OUR BEST OVER THE PHONE TO ASSIST YOU WITH YOUR PROBLEM, OR DIRECT YOU ACCORDINGLY.

VEHICLES THAT RECEIVE OVER SIZED TIRES SHOULD CHECK BALL JOINTS, TIE ROD ENDS AND PIVOT POINTS, AS WELL AS GENERALLY INSPECT THE ENTIRE SUSPENSION FRONT TO REAR EVERY 2500 – 5000 MILES FOR WEAR AND REPLACE PARTS AS NEEDED.

ALSO, WE WOULD LOVE TO SEE YOUR TRUCK COMPLETED. IF YOU WOULD LIKE TO HAVE YOUR VEHICLE FEATURED ON OUR SOCIAL MEDIA PAGES, PLEASE E-MAIL US AT sales@cstsuspension.com WITH PICTURES OF YOUR VEHICLE, LIST OF MODS, YOUR ACCOUNT NAME AND WE WILL GET THEM POSTED. THANK YOU FOR SUPPORTING CST!!!



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INSTRUCTIONS:

1. JACK UP THE TRUCK AND SUPPORT IT UNDER THE FRAME WITH JACK STANDS. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
2. REMOVE THE WHEELS. (🔧 21MM SOCKET)
3. REMOVE THE PLASTIC SPLASH GUARDS ON THE REAR SIDE OF THE UPPER CONTROL ARMS BY PINCHING THE CENTER OF THE CLIPS HOLDING THEM ON. REMOVE THE 12MM BOLTS THAT HOLD THE BRAKE LINE BRACKET TO THE FRAME ON BOTH SIDES OF THE TRUCK. (YOU WILL RE-USE THESE BOLTS LATER) (🔧 12MM SOCKET)
4. REMOVE THE BOLTS HOLDING THE ABS SENSOR AND ABS SENSOR WIRE BRACKETS TO THE SPINDLES. FREE IT FROM THE SPINDLE AND HANG IT OUT OF THE WAY. (🔧 10MM SOCKET)
5. REMOVE THE 12MM BOLTS HOLDING THE BRACKET AND ABS WIRE FROM THE TOP OF THE UPPER CONTROL ARMS. PRY OPEN THE TABS THAT HOLD THE WIRE TO THE BRACKET, BE CAREFUL NOT TO CUT OR DAMAGE THE WIRE. THIS BRACKET WILL NOT BE RE-USED. (🔧 12MM SOCKET)
6. REMOVE THE COTTER PIN FROM THE TIE ROD ENDS. SEPARATE THE TIE ROD END FROM THE SPINDLES. DO NOT STRIKE THE TIE ROD END WITH A HAMMER, YOU MAY DAMAGE IT. USE A REMOVAL TOOL, OR AFTER YOU HAVE LOOSENED THE NUTS PLACE A SOCKET ON THE NUT AND LIGHTLY STRIKE THE SOCKET WITH A HAMMER TO JAR THE TAPER LOOSE. (🔧 24MM SOCKET)
7. REMOVE THE BOLTS HOLDING THE BRAKE CALIPERS TO THE SPINDLE AND HANG THEM OUT OF THE WAY USING BRAKE HOOKS, DO NOT LET THEM HANG ON THE BRAKE LINES. SLIDE THE ROTORS OFF OF THE HUBS. (🔧 19MM SOCKET)
8. REMOVE THE COTTER PINS FROM THE UPPER AND LOWER BALL JOINTS (YOU WILL RE-USE THE UPPER COTTER PIN IF NOT REPLACING THE UPPER ARMS). LOOSEN THE NUTS FOR THE UPPER AND LOWER BALL JOINT TAPERS AND SEPARATE THEM THE SAME WAY AS YOU DID FOR THE TIE ROD ENDS. (🔧 19MM AND 24MM SOCKET)
9. REMOVE THE SPINDLES WITH THE HUB ASSEMBLIES FROM THE TRUCK.
10. REMOVE THE 4 BOLTS HOLDING THE HUB ASSEMBLY TO THE STOCK SPINDLE. **YOU WILL REUSE THE DUST SHIELD AND O-RING.** (🔧 12MM ALLEN SOCKET)
11. OPEN PARTS BAG #1
12. INSTALL THE HUB ASSEMBLIES TO THE NEW CST SPINDLES WITH THE OEM DUST SHIELDS AND O-RINGS USING THE NEW SUPPLIED BOLTS. (🔧 19MM SOCKET)
13. IF YOU ARE INSTALLING NEW SHOCKS, SHOCK SPACERS OR UPPER ARMS IN THE FRONT DO SO NOW. FOLLOW THE PROVIDED INSTRUCTIONS.
14. OPEN PARTS BAG #2

15. INSTALL THE LIFT SPINDLE TO THE LOWER BALL JOINT USING THE SUPPLIED LARGE WASHER AND OEM NUT. IF YOU ARE INSTALLING THE STOCK UPPER CONTROL ARM THEN YOU MUST USE THE SUPPLIED TAPER SLEEVE AND THEN ATTACH THE BALL JOINT TO THE NEW SPINDLE USING THE SUPPLIED WASHER, OEM NUT AND COTTER PIN. IF YOU ARE INSTALLING THE CST UPPER CONTROL ARMS, THEN NO TAPER SLEEVE IS REQUIRED AND JUST ATTACH THE UPPER CONTROL ARM BALL JOINT Directly TO THE SPINDLE USING THE NUT AND WASHER THAT IS PROVIDED WITH THE UPPER ARM. TIGHTEN UPPER AND LOWER BALL JOINTS AND INSTALL COTTER PINS WHERE NEEDED. (🔧 19MM AND 24MM WRENCH)
16. OPEN PARTS BAG #3
17. BOLT THE CST BRAKE LINE DROP BRACKETS TO THE FRAME USING THE STOCK BOLTS. THEN BOLT THE STOCK BRAKE LINE BRACKET TO THE CST DROP BRACKET USING THE SUPPLIED 5/16 BOLTS, NUTS, AND WASHERS. (🔧 12MM SOCKET, ½ INCH WRENCH AND SOCKET) (See picture Below)



18. SLIDE THE ROTORS ONTO THE HUB AND USE A FEW LUG NUTS TO HOLD THE ROTOR SECURE AND FLAT AGAINST THE HUB. NOW SLIDE THE BRAKE CALIPERS ONTO THE ROTOR AND BOLT THEM TO THE SPINDLE USING THE STOCK BOLTS AND LOCKTITE. AFTER TIGHTENING THE BOLTS BE SURE THAT THE ROTOR SPINS FREELY. (🔧 19MM SOCKET)
19. OPEN PARTS BAG #4

20. BOLT THE STOCK BRAKE LINE BRACKET TO THE STUD ON THE BACK OF THE SPINDLE USING THE SUPPLIED 5/16 X 1/2 BOLT AND WASHER. USE RED LOCKTITE. (🔧 1/2 INCH SOCKET) (SEE picture below)



21. ROUTE THE ABS WIRE BEHIND THE BACK OF THE SPINDLE. INSTALL THE ABS SENSOR INTO THE SENSOR HOLE ON THE FRONT LOWER PART OF THE SPINDLE. DO NOT OVER TIGHTEN. ATTACH THE STOCK ABS WIRE BRACKET TO THE MOUNTING TAB ON THE FRONT SIDE OF THE SPINDLE USING THE SUPPLIED 1/4 INCH BOLT, NUT, AND WASHER. ATTACH THE WIRE TO THE UPPER REAR OF THE SPINDLE WITH THE SUPPLIED ADEL CLAMP, 1/4 INCH BOLT, NUT, AND WASHER. USE TWO TY-WRAPS TO ROUTE THE WIRE UP ALONG THE BRAKE LINE. (SEE PHOTO) (🔧 10MM WRENCH, 7/16 INCH SOCKET AND WRENCH)(See picture below)



22. RE-ATTACH THE TIE RODS TO THE SPINDLE. USE THE STOCK NUT AND TIGHTEN UNTIL YOU ARE ABLE TO LINE UP THE HOLES FOR THE COTTER PINS FROM BAG #2. (🔧
24MM SOCKET)
23. INSTALL THE WHEELS AND TORQUE THE LUGS TO 100 FT.LBS. SET THE TRUCK ON THE GROUND.
24. MAKE SURE THE BRAKE LINES AND ANTILOCK WIRES DO NOT RUB ON ANYTHING OR GET PINCHED DURING SUSPENSION TRAVEL AND TURNING.
25. HAVE THE TRUCK PROFESSIONALLY ALIGNED.
26. RE CHECK ALL OF THE BOLTS AFTER 1000 MILES INCLUDING THE LUG NUTS.

For technical assistance call CST at 951-571-0212

Or e-mail us at sales@cstsuspension.com

Thank you for buying CST Performance Suspension!