RUBICON EXPRESS

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INSTALLATION INSTRUCTIONS FOR TJ ('97+ WRANGLER) SUSPENSION LIFT.

KIT CONTENTS:

RE3700	LOWER FRONT CONTROL ARMS
RE3780*	UPPER FRONT CONTROL ARMS
RE1355	FRONT COIL SPRINGS PAIR
RE1553	FRONT BRAKE LINE SET
RE1165	SWAY BAR DISCONNECTS
RE1170*	SWAY BAR DISCONNECTS
RE1172	DISCONNECT ADAPTERS
RE1600*	ADJUSTABLE TRACK BAR
RE1380	FRONT BUMPSTOP EXTENSIONS
DESCRIPTION	
RE3700	LOWER REAR CONTROL ARMS
RE3783*	UPPER REAR CONTROL ARMS
RE1360	REAR COIL SPRINGS PAIR
RE1155	SWAY BAR END LINKS
RE1603	REAR TRACK BAR BRACKET
RE1385	REAR BUMPSTOP EXTENSIONS

3" FRONT COIL SPRINGS

3" REAR COIL SPRINGS

RE1363

RE1360

REQUIRED TOOLS:

BASIC MECHANICS HAND TOOLS JACK STANDS AND FLOOR JACK SPRING COMPRESSORS 9/16" DRILL BIT

INSTALLATION:

- 1. RAISE VEHICLE AND SUPPORT WITH STANDS.
- 2. REMOVE WHEELS.
- 3. REMOVE FRONT SHOCKS.
- 4. REMOVE FRONT SWAY BAR END LINKS.
- REMOVE FRONT TRACK BAR. IT MAY BE HELPFUL TO DISCONNECT STEERING AT PITMAN ARM.
- REMOVE FRONT SPRINGS. SPRING COMPRESSORS MAY BE HELPFUL.
- 7. SUPPORT THE FRONT AXLE WITH JACK STANDS.
- 8. REMOVE FRONT UPPER AND LOWER CONTROL ARMS. (3" SEE ADDENDUM)

- 9. REMOVE FACTORY BRAKE LINES AND REPLACE WITH SUPPLIED LINES
- DRILL 5/16" HOLE IN CENTER OF LOWER SPRING PADS.
- 11. USE SELF-TAPPING BOLT THROUGH SPACER TO CUT THREADS IN LOWER SPRING PAD. REMOVE BOLT AND SPACER, IT WILL BE INSTALLED WITH THE SPRING
- 12. INSTALL THE LOWER CONTROL ARMS WITH THE RUBBER BUSHING AT THE FRAME. RE-USE THE FACTORY HARDWARE. OFFSET TUBE ON CONTROL ARM WILL MOUNTED AS LOW AS POSSIBLE
- 13. INSTALL THE UPPER CONTROL ARMS. RE-USE THE FACTORY HARDWARE. ADJUST UPPER ARMS TO ¼"-3/8" LONGER THAN STOCK. TIGHTEN JAM NUT.
- 14. INSTALL THE FRONT SPRINGS WITH THE 2" BUMP STOP EXTENSION INSIDE OF THE COIL. COIL SPRING COMPRESSORS MAY BE USEFUL. ONCE THE SPRING IS IN PLACE, THREAD THE BOLT INTO THE LOWER SPRING PAD. (SEE #11) ROTATE THE COIL TO INDEX THE PIGTAIL END OF THE SPRING WITH THE INDENT IN THE LOWER SPRING PAD.
- 15. INSTALL THE SPRING CLAMP REMOVED IN #5.
- INSTALL THE SUPPLIED 2.5" BAR PINS THROUGH THE BOTTOM SHOCK EYES AND INSTALL SHOCKS.
- 17. INSTALL ADJUSTABLE FRONT TRACKBAR PER INSTRUCTIONS SUPPLIED WITH TRACKBAR. DO NOT ATTEMPT TO ADJUST BAR UNTIL LIFT IS INSTALLED AND WEIGHT IS ON VEHICLE.
- INSTALL SWAY BAR QUICK DISCONNECTS PER INSTRUCTIONS SUPPLIED WITH DISCONNECTS.

REAR AXLE:

- 19. REMOVE THE REAR SHOCKS.
- 20. REMOVE THE REAR SWAY BAR END LINKS.
- 21. SUPPORT THE REAR AXLE.
- 22. REMOVE THE PLASTIC DUST SHIELD THAT COVERS THE BOLT SECURING THE REAR TRACK BAR TO THE MOUNT ON THE AXLE HOUSING AND DISCARD.
- REMOVE THE TORX HEAD BOLT (T55) AND DISCONNECT AXLE END OF TRACK BAR.
- 24. REMOVE THE REAR SPRINGS
- 25. REMOVE THE LOWER AND UPPER REAR CONTROL ARMS AND SUPPORT THE REAR AXLE

^{*}parts not included in 3" kit

THROUGH THE ORIGINAL TRACK BAR BOLT HOLE.) 27. WITH THE TRACK BAR BRACKET IN PLACE, DRILL 5/16" HOLES IN THE AXLE MOUNT WHERE THE

26. INSTALL TRACK BAR BRACKET USING THE

SUPPLIED 1 1/2" BOLT. (THE BOLT GOES

- PLASTIC DUST SHIELD WAS PREVIOUSLY LOCATED. SOME MODELS MAY NOT REQUIRE DRILLING. 28. INSTALL THE 5/16" HARDWARE IN THE HOLES DRILLED IN #28.
- 29. INSTALL THE LOWER CONTROL ARMS WITH THE
- RUBBER BUSHING AT THE FRAME. RE-USE THE FACTORY HARDWARE. 30. INSTALL THE UPPER CONTROL ARMS RE-USING
 - THE FACTORY SUPPLIED HARDWARE. ADJUST CONTROL ARMS 1/4" LONGER THAN STOCK FOR STD. DRIVELINE AND 3/4" LONGER THAN STOCK FOR C.V. JOINT DRIVELINES, TIGHTEN JAM NUT.
- 31. REMOVE THE RUBBER INSERT FROM THE REAR BUMP STOP. REMOVE THE BUMP STOP CUP. PLACE THE 1 3/4" SPACER BETWEEN THE BUMP STOP CUP AND THE FRAME USING THE SUPPLIED LONGER METRIC HARDWARE.
- 32. INSTALL SPRINGS. SPRING COMPRESSORS MAY BE HELPFUL. 33. INSTALL REPLACEMENT SWAY BAR END LINKS.
- PIN. 35. INSTALL TIRES. 36. LOWER VEHICLE TO GROUND AND ADJUST FRONT TRACK BAR TO CENTER FRONT AXLE PER

34. INSTALL REAR SHOCKS WITH SUPPLIED 3" BAR

INSTRUCTIONS SUPPLIED WITH TRACK BAR.

- 37. THROUGHLY BLEED BRAKE LINES AND CHECK FOR LEAKS. 38. DOUBLE-CHECK ALL NUTS AND BOLTS.
- 39. TEST DRIVE AND NOTE LOCATION OF STEERING WHEEL. 40. ADJUST DRAG LINK TO CENTER STEERING WHEEL. LENGTHEN TIE ROD TO SET TOE.
- 41. ALIGN VEHICLE AS SOON AS PRACTICLE, SET CASTOR TO FACTORY MINIMUM AND MODERATE TOE IN.

TROUBLE SHOOTING

DRIVELINE VIBRATION:

CASE OUTPUT SHAFT. TO CORRECT, SHORTEN THE UPPER ARM TO LOWER THE PINION. DECELLERATION VIBRATION: CAUSED BY THE

ACCELERATION VIBRATION: CAUSED BY THE PINION BEING TOO HIGH IN RELATION TO THE TRANSFER

PINION BEING TOO LOW IN RELATION TO THE TRANSFER CASE OUTPUT SHAFT. TO CORRECT. LENGTHEN THE UPPER ARMS TO RAISE THE PINION.

SLIP YOKE VIBRATION: CAUSED BY EXCESSIVE WEAR ON THE TRANSFER CASE SLIP YOKE.

COMMONLY OCCURS ON LIFTED VEHICLES WITH

DRIVESHAFT. BUMP STEER: CAUSED BY IMPROPER RELATIONSHIP OF DRAG LINK AND TRACK BAR. TO CORRECT. CENTER AXLE AGAIN FOLLOWING THE

MORE THAN 30,000 MILES. TO CORRECT, INSTALL A

SLIP YOKE ELIMINATOR KIT AND REPLACEMENT

CENTER THE STEERING WHEEL.

TJ 3" KIT ADDENDUMS:

- B. TRANSFER CASE LOWERING KIT IS
- C. FRONT TRACK BAR IS NOT INCLUDED. THE
- - E. 231 KIT AND DRIVESHAFT NOT INCLUDED.

- INSTRUCTIONS SUPPLIED WITH THE TRACK BAR NEXT DETERMINE THE NEUTRAL POSITION OF THE STEERING WHEEL. ADJUST THE DRAG LINK TO
- A. UPPER ARMS ARE NOT INCLUDED.
- RECOMMENDED.
- LOWER MOUNTING HOLE ON AXLE WILL NEED TO BE DRILLED OVER TOWARD DRIVER SIDE 3/4" TO
- VEHICLE. D. DO NOT INSTALL TIRES LARGER THAN 33"

ALLOW FRONT AXLE TO CENTER UNDER