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Jeep Wrangler JL 1"- 1.5" & 2"- 2.5" Suspension Lifts Installation Instructions

Required Tools List:

- Safety Glasses
- Metric & Standard Sockets / Wrenches
- Pliers
- Hex Key Sockets / Wrenches
- Floor Jack
- Jack Stands
- Measuring Tape
- Torque Wrench



Before beginning the installation, read these instructions & the enclosed driver's WARNING NOTICE thoroughly & completely. Also affix the WARNING decal in the passenger compartment in clear view of all occupants. Please refer to the Parts List to insure that all parts & hardware are received prior to disassembly of the vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain the needed items. If you have any questions or reservations about installing this product, contact SKYJACKER® Technical Assistance at 318-388-0816.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory, but is usually not noticed until a lift kit has been installed which makes the difference more visible. Using a measuring tape, measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: _____

Passenger Side Front: _____

Driver Side Rear: _____

Passenger Side Rear: _____

Important Notes:

- The drag link must be adjusted to center the steering wheel before the vehicle is driven. Failure to do so will cause computer errors, odd handling characteristics, & poor performance.
- If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local Jeep dealer or an authorized dealer for details.
- After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

Component Box Breakdown: (1"- 1.5" Lift Kits)

Part #: JL15BPBLT / JL15BPMLT / JL15RBPBLT / JL15RBPMLT (4 Door / Gas Models)
JL15BPBLTD / JL15BPMLTD / JL15RBPBLTD / JL15RBPMLTD (4 Door / Diesel Models)

Item #	Description	Qty	Item #	Description	Qty
JL10FS-DR	JL FRONT COIL SPRING / GAS (Included With JL15BPLT Kits)	2	JL12RS-DR-L	JL REAR COIL SPRING / SHORT (Included With JL15RBP Kits)	1
JL10HDFS-DR	JL FRONT COIL SPRING / DSL (Included With JL15BPMLTD Kits)	2	JL12RS-DR-R	JL REAR COIL SPRING / TALL (Included With JL15RBP Kits)	1
JL10RS-DR-L	JL REAR COIL SPRING / SHORT (Included With JL15BP Kits)	1	H-BOX JL15BP	JL HARDWARE BOX (Included With JL15 Kits)	1
JL10RS-DR-R	JL REAR COIL SPRING / TALL (Included With JL15BP Kits)	1	B8385 (Front)	BLACK MAX SHCK W/BLK BOOT	2
JL12FS-DR	JL FRONT COIL SPRING (Included With JL15RBPBLT Kits)	2	B8387 (Rear)	BLACK MAX SHCK W/BLK BOOT	2
JL12HDFS-DR	JL FRONT COIL SPRING (Included With JL15RBPMLTD Kits)	2	M9385 (Front)	M95 MONOTUBE SHOCK	2
			M9387 (Rear)	M95 MONOTUBE SHOCK	2

Hardware Box Breakdown:

Part # H-BOX JL15BP (Included With JL15 Kits)

Item #	Description	Qty	Item #	Description	Qty
JL10RBS-S	JL REAR BUMP STOP SPACER	2	HB-JL10RBS	HDWR BAG: JL REAR BUMP STP	1
SBE4018-L	JL FRONT SWAY BAR END LINK	2	HB-JLSBE	HDWR BAG: JL FRONT END LINK	1
HB-JK23	HDWR BAG: JL FRT BUMP STOP	1	I-JL1525BP	INST SHEET: JL15BP / JL25BP	1

Hardware Bag Breakdown:

Part # HB-JK23 (Included With JL15 Kits)

Item #	Description	Qty	Item #	Description	Qty
BSS3010-S	JL FRONT BUMP STOP SPACER	2	38SAEW	3/8 SAE WASHER	2
38X134BHB	3/8 X 1 3/4 BUTTON HEAD BOLT	2	38CTN	3/8 COARSE THREAD LOCK NUT	2

Part # HB-JL10RBS (Included With JL15 Kits)

Item #	Description	Qty	Item #	Description	Qty
516X134BHB	5/16 X 1 3/4 BUTTON HEAD BLT	4	516CTN	5/16 COARSE THRD LOCK NUT	4
516SAEW	5/16 SAE WASHER	4			

Part # HB-JLSBE (Included With JL15 Kits)

Item #	Description	Qty	Item #	Description	Qty
HG5815-K	HOURGLASS 5/8 BUSHING / BLK	4	716USSW	7/16 USS FLAT WASHER	4
141509	ES25 SLEEVE	4	12MMN	12 MM METRIC LOCK NUT	2
12X70MMB	12MM X 70MM METRIC BOLT	2			

Component Box Breakdown: (2" - 2.5" Lift Kits)

Part #: JL20BPBLT / JL20BPMLT / JL20RBPBLT / JL20RBPMLT (2 Door / Gas Models)
JL20BPBLTD / JL20BPMLTD / JL20RBPBLTD / JL20RBPMLTD (2 Door / Diesel Models)

JL25BPBLT / JL25BPMLT / JL25RBPBLT / JL25RBPMLT (4 Door / Gas Models)
JL25BPBLTD / JL25BPMLTD / JL25RBPBLTD / JL25RBPMLTD (4 Door / Diesel Models)

Item #	Description	Qty	Item #	Description	Qty
JL10FS-DR	JL FRONT COIL SPRING (Included With JL20BPMLT Kits)	2	JL23FS-DR	JL FRONT COIL SPRING (Included With JL25RBPMLT Kits)	2
JL10HDFS-DR	JL FRONT COIL SPRING (Included With JL20BPMLTD Kits)	2	JL23HDFS-DR	JL FRONT COIL SPRING (Included With JL25RBPMLTD Kits)	2
JL10RS-DR-L	JL REAR COIL SPRING / SHORT (Included With JL20BP Kits)	1	JL23RS-DR-L	JL REAR COIL SPRING / SHORT (Included With JL25RBP Kits)	1
JL10RS-DR-R	JL REAR COIL SPRING / TALL (Included With JL20BP Kits)	1	JL23RS-DR-R	JL REAR COIL SPRING / TALL (Included With JL25RBP Kits)	1
JL12FS-DR	JL FRONT COIL SPRING (Included With JL20RBPMLT & JL25BPMLT Kits)	2	H-BOX JL25BP	JL HARDWARE BOX (Included With JL20BP & JL25BP Kits)	1
JL12HDFS-DR	JL FRONT COIL SPRING (Included With JL20RBPMLTD & JL25BPMLTD Kits)	2	H-BOX JL25RBP	JL HARDWARE BOX (Included With JL20BP & JL25BP Kits)	1
JL12RS-DR-L	JL REAR COIL SPRING / SHORT (Included With JL20RBP & JL25BP Kits)	1	B8386 (Front)	BLACK MAX SHCK W/BLK BOOT	2
JL12RS-DR-R	JL REAR COIL SPRING / TALL (Included With JL20RBP & JL25BP Kits)	1	B8388 (Rear)	BLACK MAX SHCK W/BLK BOOT	2
			M9386 (Front)	M95 MONOTUBE SHOCK	2
			M9388 (Rear)	M95 MONOTUBE SHOCK	2

Hardware Box Breakdown:

Part # H-BOX JL25BP (Included With JL20BP & JL25BP Kits)

Item #	Description	Qty	Item #	Description	Qty
JK25RBS-S	JL REAR BUMP STOP SPACER	2	HB-SBENB03	HDWR BAG: JL FRONT END LINK	1
SBE4028-L	JL FRONT SWAY BAR END LINK	2	HB-SBENB04	HDWR BAG: JL REAR END LINK	1
SBE4058-L	JL REAR SWAY BAR END LINK	2	I-JL1525BP	INST SHEET: JL15BP / JL25BP	1
HB-JK20	HDWR BAG: JL BUMP STOP SPC	1			

Part # H-BOX JL25RBP (Included With JL20RBP & JL25RBP Kits)

Item #	Description	Qty	Item #	Description	Qty
JK25RBS-S	JL REAR BUMP STOP SPACER	2	HB-SBENB03	HDWR BAG: JL FRONT END LINK	1
SBE4028-L	JL FRONT SWAY BAR END LINK	2	HB-SBENB04	HDWR BAG: JL REAR END LINK	1
SBE4068-L	JL REAR SWAY BAR END LINK	2	I-JL1525BP	INST SHEET: JL15BP / JL25BP	1
HB-JK20	HDWR BAG: JL BUMP STOP SPC	1			

Hardware Bag Breakdown:

Part # HB-JK20 (Included With JL20 & JL25 Kits)

Item #	Description	Qty	Item #	Description	Qty
BSS3020-S	JL FRONT BUMP STOP SPACER	2	516X1FTB	5/16 X 1 FINE THREAD BOLT	4
38X234BHB	3/8 X 2 3/4 BUTTON HEAD BOLT	2	516SAEW	5/16 SAE WASHER	8
38SAEW	3/8 SAE WASHER	2	516FTN	5/16 FINE THREAD LOCK NUT	4
38SCTN	3/8 COARSE THREAD LOCK NUT	2			

Part # HB-SBENB03 (Included With JL20 & JL25 Kits)

Item #	Description	Qty	Item #	Description	Qty
141509	ES25 SLEEVE	4	716USSW	7/16 USS FLAT WASHER	4
12X70MMB	12MM X 70MM METRIC BOLT	2	12MMN	12 MM METRIC LOCK NUT	2

Part # HB-SBENB04 (Included With JL20 & JL25 Kits)

Item #	Description	Qty	Item #	Description	Qty
141509	ES25 SLEEVE	4	716USSW	7/16 USS FLAT WASHER	4
12X65BHB	12MM X 65MM BUTTON HD BLT	2	12MMN	12 MM METRIC LOCK NUT	2

Front Installation:

1. With the vehicle on flat level ground, set the emergency brake, & block the rear tires / wheels.
2. Raise the front of the vehicle, support the frame rails, & front differential using jack stands.
3. Remove the front tires / wheels using a 22mm socket. (See Photo # 1)
4. Remove the OEM front skid plate using a 13mm socket / wrench. (See Photo # 2)
5. Remove the OEM front sway bar end links using a 6mm hex key socket / wrench & 18mm socket / wrench. (See Photo # 3)
6. Disconnect the OEM front track bar from the frame using a 21mm socket / wrench. (See Photo # 4)



7. Disconnect the OEM drag link from the OEM pitman arm using a 21mm socket / wrench. (See Photo # 5)
8. Remove the OEM front shocks using a 18mm socket / wrench. (See Photo # 6)
9. Disconnect the OEM front brake line brackets from the OEM front lower control arms using a 15mm socket / wrench. (See Photo # 7)
10. Mark the location of the OEM front driveshaft / flange at the front differential & disconnect using a 15mm socket / wrench. (See Photo # 8)
11. Disconnect the wiring harness from the passenger side OEM front upper control arm using pliers.
12. Disconnect the wiring harness from the OEM 4wd acuator. (See Photo # 9)
13. Disconnect the OEM vent hose from the front differential using pliers.
14. While checking for appropriate slack in ABS lines, brake lines, differential vent hose, & etc. Lower the front differential & remove the OEM front coil springs.
15. **JL15 Kits:** Install the new Skyjacker front coil springs & new Skyjacker front bump stop spacers to the OEM front bump stop pads using the supplied 3/8" x 1 3/4" button head bolts, 3/8" washers, 3/8" nuts, a 7/32" hex key socket / wrench, & 9/16" socket / wrench. (See Photo # 10) **Note:** Be sure when installing the new front coil springs that the tabs of each OEM front upper coil spring isolator are aligned with the holes of the OEM front upper coil spring mounts.
16. **JL20 & JL25 Kits:** Install the new Skyjacker front coil springs & new Skyjacker front bump stop spacers to the OEM front bump stop pads using the supplied 3/8" x 2 3/4" button head bolts, 3/8" washers, 3/8" nuts, a 7/32" hex key socket / wrench, & 9/16" socket / wrench. (See Photo # 10) **Note:** Be sure when installing the new front coil springs that the tabs of each OEM front upper coil spring isolator are aligned with the holes of the OEM front upper coil spring mounts.



Photo # 5

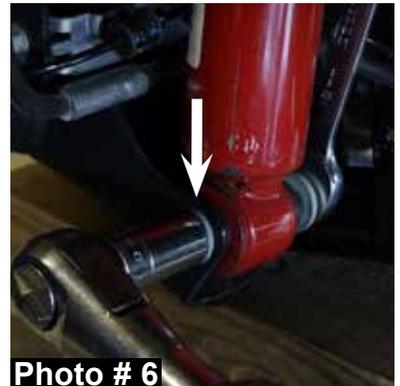


Photo # 6



Photo # 7



Photo # 8

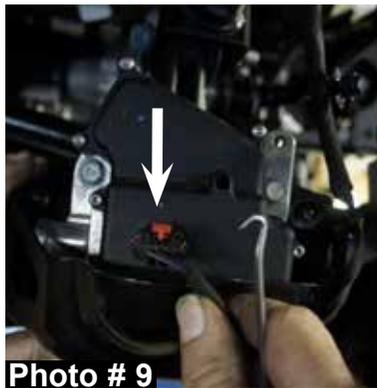


Photo # 9



Photo # 10

17. Raise the front differential in order to load the new Skyjacker front coil springs & connect the OEM front driveshaft using the OEM hardware & a 15mm socket / wrench. (See Photo # 8)

18. Connect the OEM drag link to the OEM pitman arm using the OEM hardware & a 21mm socket / wrench. (See Photo # 5)

19. Connect the OEM vent hose to the front differential using pliers.

20. Connect the wiring harness to the OEM 4wd acuator. (See Photo # 9)

21. Connect the wiring harness to the passenger side OEM front upper control arm.

22. Connect the OEM front brake line brackets to the OEM front lower control arms using the OEM hardware & a 15mm socket / wrench. (See Photo # 7)

23. Install the new Skyjacker front shocks using the supplied polyurethane bushings, steel sleeves, OEM hardware & a 18mm socket / wrench.
Note: The new front shocks use the larger inside diameter polyurethane bushings / longer steel sleeves for the front upper shock mounts & the smaller inside diameter polyurethane bushings / shorter steel sleeves for the front lower shock mounts. (See Photo # 11)

24. Install the new Skyjacker front sway bar end links using the supplied steel sleeves, 12mm x 70mm bolts, 7/16" USS washers, 12mm nuts, OEM hardware, a 18mm socket / wrench, & 19mm socket / wrench. (See Photo # 12) **Note:** On the driver side of the vehicle, install the OEM lower bolt with the large washer to the bushing side of the new front sway bar end link.

25. Install the OEM front skid plate using the OEM hardware & a 13mm socket / wrench. (See Photo # 2)

26. Install the front tires / wheels using a 22mm socket & lower the front of the vehicle to the ground. (See Photo # 1)

27. Connect the OEM front track bar to the frame using the OEM hardware & a 21mm socket / wrench. (See Photo # 4) **Note:** Slightly turning the steering wheel will help align the OEM front track bar with the frame mount.

Rear Installation:

1. Block the front tires / wheels, raise the rear of the vehicle, support the frame rails, & rear differential using jack stands.

2. Remove the rear tires / wheels using a 22mm socket. (See Photo # 13)



3. **JL15 Kits:** Disconnect the OEM rear sway bar end links from the rear differential using a 18mm socket / wrench. (See Photo # 14)
4. **JL20 & JL25 Kits:** Remove the OEM rear sway bar end links using a 6mm hex key socket / wrench & 18mm socket / wrench. (See Photo # 14)
5. Disconnect the OEM rear track bar from the frame using a 21mm socket / wrench. (See Photo # 15)
6. In order to gain access to the OEM rear upper shock mounting bolts, remove the OEM rear lower fender liners using a 8mm socket / wrench. (See Photo # 16)
7. Remove the OEM rear shocks using a 18mm socket / wrench. (See Photo # 17)
8. Disconnect the OEM rear brake line brackets from the rear differential using a 13mm socket / wrench. (See Photo # 18)
9. While checking for appropriate slack in ABS lines, brake lines, differential vent hose, & etc. Lower the rear differential & remove the OEM rear coil springs.
10. **JL15 Kits:** Install the new Skyjacker rear bump stop spacers to the OEM rear bump stop pads using the supplied 5/16" x 1 3/4" button head bolts, 5/16" washers, 5/16" nuts, a 3/16" hex key socket / wrench, & 1/2" socket / wrench. (See Photo # 19)

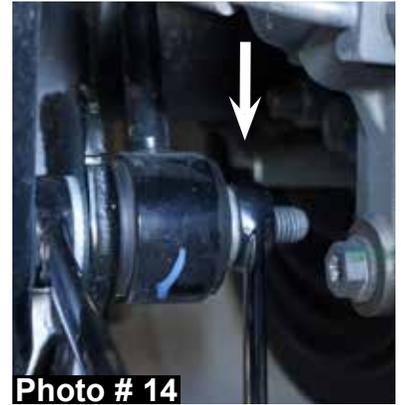


Photo # 14



Photo # 15



Photo # 16



Photo # 17



Photo # 18

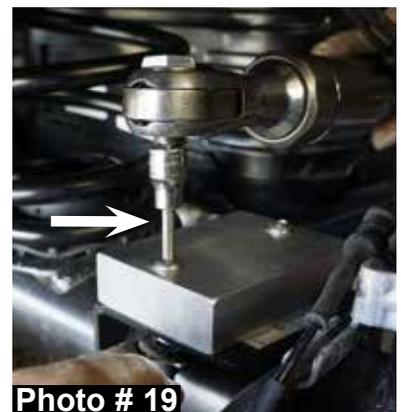
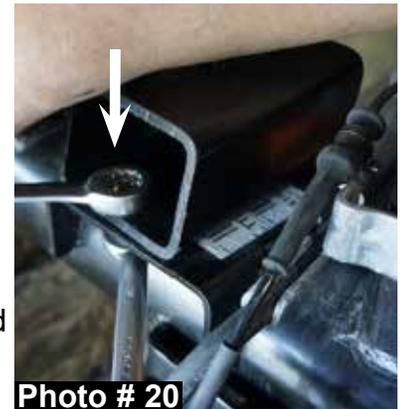


Photo # 19

11. **JL20 & JL25 Kits:** Install the new Skyjacker rear bump stop spacers to the OEM rear bump stop pads using the supplied 5/16" x 1" bolts, 5/16" washers, 5/16" nuts, & a 1/2" socket / wrench. (See Photo # 20)

Note: Install the new rear bump stop spacers so the angled end is towards the rear of the vehicle.



12. Install the new Skyjacker rear coil springs. **Note:** The new rear coil springs are two different lengths. The new taller rear coil spring is to be installed on the side of the vehicle in which the OEM fuel tank is installed & the new shorter rear coil spring is to be installed on the opposite side of the vehicle. Be sure when installing the new rear coil springs that the tabs of each OEM rear upper coil spring isolator are aligned with the holes of the OEM rear upper coil spring mounts.

13. Raise the rear differential in order to load the new Skyjacker rear coil springs & install the new Skyjacker rear shocks using the supplied polyurethane bushings, steel sleeves, OEM hardware & a 18mm socket / wrench. **Note:** The new rear shocks use the larger inside diameter polyurethane bushings / longer steel sleeves for the rear upper shock mounts & the smaller inside diameter polyurethane bushings / shorter steel sleeves for the rear lower shock mounts. (See Photo # 11)



14. Install the OEM rear lower fender liners using the OEM hardware & a 8mm socket / wrench. (See Photo # 16)

15. Connect the OEM rear brake line brackets to the rear differential using the OEM hardware & a 13mm socket / wrench. (See Photo # 18)

16. **JL15 Kits:** Connect the OEM rear sway bar end links to the rear differential using the OEM hardware & a 18mm socket / wrench. (See Photo # 14)

17. **JL20 & JL25 Kits:** Install the new Skyjacker rear sway bar end links using the supplied steel sleeves, 12mm x 65mm button head bolts, 7/16" USS washers, 12mm nuts, OEM hardware, a 5/16" hex key socket / wrench, & 18mm socket / wrench. (See Photo # 21) **Note:** Install the new upper end link button head bolts from the outside of the vehicle inward & the OEM lower bolts with the large washer to the bushing side of the new rear sway bar end links.

18. Install the rear tires / wheels using a 22mm socket & lower the rear of the vehicle to the ground. (See Photo # 13)

19. Connect the OEM rear track bar to the frame using the OEM hardware & a 21mm socket / wrench. (See Photo # 15)

Final Notes:

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (Do not retighten the nuts & bolts where thread lock compound was used.)

- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center align the vehicle to the OEM specifications.
- After the first 100 miles, check all hardware for the proper torque & periodically thereafter.

TORQUE SPECIFICATIONS					
<u>INCH SYSTEM</u>			<u>METRIC SYSTEM</u>		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FTLB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

- **The above specifications are not to be used when the bolt is being installed with a bushing.**

Optional Front Adjustable Track Bar Available:

JLFTBA18 Front Adjustable Track Bar / 2"- 6" Lift
 JLRTBA18 Rear Adjustable Track Bar / 2"- 6" Lift

Optional Front Track Bar Brace Available:

JLFBRC18 Front Track Bar Brace

Optional HD OEM Replacement Steering Stabilizers Available:

7008 HD OEM Replacement Steering Stabilizer - White Steering Damper
 8008 HD OEM Replacement Steering Stabilizer - Black Steering Damper
 9008 HD OEM Replacement Steering Stabilizer - Silver Steering Damper

Optional Dual Steering Stabilizer Kits Available:

7208 Dual Steering Stabilizer Kit - White Steering Dampers
 8208 Dual Steering Stabilizer Kit - Black Steering Dampers
 9208 Dual Steering Stabilizer Kit - Silver Steering Dampers

Optional HD Front / Rear Upper & Lower Control Arms Available:

JL24LL	HD Front & Rear Lower Control Arms - Set / 1"- 4" Lift
JL24LLX	Single Flex Front & Rear Lower Control Arms - Set / 1"- 6" Lift
JLL24F-SX	Single Flex Front Lower Control Arms - Pair / 1"- 6" Lift
JLL24R-SX	Single Flex Rear Lower Control Arms - Pair / 1"- 6" Lift
JLULF26-SX	Single Flex Front Upper Control Arms - Pair / 1"- 6" Lift
JLULR26-SX	Single Flex Rear Upper Control Arms - Pair / 1"- 6" Lift

Optional Front Outboard Shock Mounting Kit Available:

JLOSM Front Outboard Shock Mounting Kit



As of February 21, 2018 Skyjacker is proud to have passed the rigorous FMVSS No.126 testing requirements on all Jeep Wrangler JL lift systems. FMVSS No.126 is the National Highway Traffic Safety Administration (NHTSA) that is established for the Federal Motor Vehicle Safety Standard (FMVSS) No.126 requiring all new passenger vehicles under 10,000lbs GVWR that include an Electronic Stability Control (ESC) system through a series of evasive lane-change maneuvers at highway speeds to ensure the driver can maintain control in critical driving situations. The main objective behind this mandate is to reduce the risk of rollovers among passenger vehicles. Skyjacker has a number of our lift systems tested to prove compliance with the FMVSS No.126 mandate. These Skyjacker systems are proven to work in harmony with the Electronic Stability Control (ESC) system. Through SEMA & the advanced testing technology by Link Engineering that involves robotic steering & outrigger equipment Skyjacker has demonstrated compliance with these safety standards.

Seat Belts Save Lives, Please Wear Your Seat Belt.