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2007-09 GM 1500 Pick-Up / SUV 4WD 6" Suspension Lift Installation Instructions

REQUIRED TOOL LIST:

- * Metric / Standard Wrenches & Sockets
- * Allen Wrenches
- * Drill & Assorted Drill Bits
- * Floor Jack
- * Jack Stands
- * Measuring Tape
- * Torque Wrench
- * Reciprocating Saw
- * Grinder



Before beginning the installation, thoroughly & completely read these instructions & the enclosed driver's WARNING NOTICE. 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 the 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 lift kit, call 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 & 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:

- This lift is determined from the amount of lift to the front of the vehicle, while only lifting the rear to a position level with the front.
- If larger tires (10% more than the stock diameter) are installed, speedometer recalibration will be necessary. Contact your local GM dealer or an authorized dealer for details.
- After installation a qualified alignment facility is required to align the vehicle to factory specifications.

Kit Box Breakdown:

Part #: C7661A

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
C766L	6" 07 GM 1500, DRVR KNUCKLE	1
C766R	6" 07 GM 1500, PASS KNUCKLE	1
C766FCM-B	6" 07 GM 1500 FRONT X-MEMBER	1
C766RCM-B	6" 07 GM 1500 REAR X-MEMBER	1
H-BOX C7661A	HDWR BOX: C7661A COMP BOX	1

Hardware Box Breakdown:

H-BOX C7661A HDWR BOX: C7661A COMP BOX

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
C766CVS-S	C766 FRONT CV SPACER	2
C766FDS-D	6"07 GM 1500 DRVR DIFF BRKT	1
C766FDS-P	6"07 GM 1500 PASS DIFF BRKT	1
C766SBL-S	OE STYLE SWAY BAR LINK 3"GM	2
C736SBL	3.5"07 GM,SWAY BAR LOW SPCR	2
C766ATL	07 GM 6" ANTI-TORQUE LINK	1
C766RBB-S	07 GM REAR BRAKE LINE EXT	1
FBL83	FRT BRAKE LINES,07 GM 1500	1
HB-C766-CM	HDWR BAG:C766 CROSS-MEMBERS	1
HB-C766-CVS	HDWR BAG: 6" C766 CV SPACER	1
HB-C766-DS	HDWR BAG:C766 DIFF BRACKETS	1
HB-C766-BL	HDWR BAG:ABS/BRK/SWAY BRKTS	1
I-C766	INST SHEET: 07 6" GM 1500	1

Hardware Bag Breakdown:

C766ATL 07 GM 6" ANTI-TORQUE LINK

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
C766ATL-S	6" 07 GM ANTI TORQUE LINK	1
58FRE-R	5/8" FEMALE ROD END, RIGHT	1
REB58-916	ROD END BUSH 5/8"	2
58RFTJN	5/8" RIGHT HAND JAM NUT	1
HG58125	HOURGLASS 5/8" X 1.25"	1
403712	ES22 SLEEVE/1.25" LONG	1
916X3CTB	9/16 X 3 COARSE THREAD BOLT	1
916CTN	9/16 COARSE THD NYLON LKNUT	1
916SAEW	9/16 SAE WASHERS	1
12X212FTB	1/2 X 2 1/2 FINE THRD BOLT	1
12SAEW	1/2 SAE WASHER	2
12FTN	1/2-20 FINE N/I LOCK NUT	1

Kit Box Breakdown:

Hardware Bag Breakdown:

FBL83 FRT BRAKE LINES,07 GM 1500

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
FBL83S	SKJ-A43,FRT BRK LN,AVALANCH	2
3CCW	COPPER CRUSH WASHER, 3/8"	4
BTIE	RED BOOT TIE	2
I-BL	INSTRUCTIONS: BRAKE LINES	1

Hardware Bag Breakdown:

HB-C766-CM HDWR BAG:C766 CROSS-MEMBERS

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
C7FS58-S	07 GM FRT X-MEM SPACER	2
CS2720-S	C736 UPR CRUSH SLV,2.720"LG	2
58X512FTB	5/8 X 5 1/2 FINE THREAD BLT	4
58SAEW	5/8 SAE WASHERS	8
58FTN	5/8-18 NYLON INSERT LOCKNUT	4

Hardware Bag Breakdown:

HB-C766-CVS HDWR BAG: 6" C766 CV SPACER

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
10MMX70MMB	10 X 70 METRIC BOLT/10.9	12
LT100	NUTS N' BOLTS 427 1 ML TUBE	1
5MMX12SHB	5MM X 12MM.80 KNUCKLE BOLTS	2

Hardware Bag Breakdown:

HB-C766-DS HDWR BAG:C766 DIFF BRACKETS

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
12X2FTB	1/2 X 2 FINE THREAD BOLT	2
12SAEW	1/2 SAE WASHER	2
12FTN	1/2-20 FINE N/I LOCK NUT	2
916X2CTB	9/16 X 2 COARSE BOLT,GR. 8	2
916SAEW	9/16 SAE WASHERS	4
916CTN	9/16 COARSE THD NYLON LKNUT	2
C968SHIM	GM 3/4T,SHIM-PASS DIFF BRKT	1

Kit Box Breakdown:

Hardware Bag Breakdown:

HB-C766-BL HDWR BAG:ABS/BRK/SWAY BRKTS

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
C736ABS-B	07 GM FRONT ABS BRACKET	2
516X1FTB	5/16 X 1 FINE THRD BOLT	5
516SAEW	5/16 SAE WASHER	10
516FTN	5/16" FINE THRD N/I LOCKNUT	5
10MMX30MMB	10 X 30 METRIC BOLT/ 10.9	4
38SAEW	3/8 SAE WASHER	4
10MMN	10 MM N/I LOCKNUT	4

Part #: C7660SP

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
C760MS-B	6"FRONT SPCR 07-09 GM 1500	2
HB-10MM/NFN	HDWR BAG: 10MM FLANGE NUTS	1

Hardware Bag Breakdown:

HB-10MM/NFN HDWR BAG: 10MM FLANGE NUTS

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
10MMX1.5NFN	10MM X 1.5 NYLON FLANGE NUT	6

Part #: C7661PR (Pick Up Model)

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
RB45	4.5" REAR BLOCK	2
916X212X1312	1 U-BOLT WITH NUTS	4

Part #: C7661SR (SUV Model)

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
ARLBD-B	AVALANCHE REAR LK BRKT-DRVR	1
ARLBP-B	AVALANCHE REAR LK BRKT-PASS	1
ARBP42-B	AVALANCHE REAR BUMP STOP LR	2
C766RTB-B	07 GM 6" REAR TRK BAR BRKT	1
SBE506-L	REAR,SWAY BAR END LK,SINGLE	2
HB-C963RCAB	HDW BAG:C963 RR CONTROL BRK	1
HB-C963RBS	HDWR BAG:C963 RR BUMP STOPS	1
HB-RSBL963	HDWR BAG:REAR END LKS/C9631	1
HB-C766RTB	HDWR BAG:C766 REAR TRK BRKT	1
C50RS	GM 4-5" SUB,YUK,XK COIL-SGL	2

I-C766SP

Kit Box Breakdown:

Hardware Bag Breakdown:

HB-C963RCAB HDW BAG:C963 RR CONTROL BRK

ITEM#	DESCRIPTION	QTY
916X312FTB	9/16 X 3 1/2 FINE THRD BOLT	2
916X4FTB	9/16 X 4 FINE THREAD BOLT	2
12X114FTB	1/2 X 1 1/4 FINE THD BOLT	2
916FTN	9/16-18 NYLON INSERT LOCKNU	4
12FTN	1/2-20 FINE N/I LOCK NUT	2
916SAEW	9/16 SAE WASHERS	8
12SAEW	1/2 SAE WASHER	4
SS1545	AVAL SLEEVE:ARLBD-B DRIVER	1

Hardware Bag Breakdown:

HB-C963RBS HDWR BAG:C963 RR BUMP STOPS

ITEM#	DESCRIPTION	QTY
716X1FTB	7/16 X 1 BOLT,FINE THD GRD8	4
716FTN	7/16-20 FINE N/I LOCK NUT	4
716SAEW	7/16 SAE WASHER	8

Hardware Bag Breakdown:

HB-RSBL963 HDWR BAG:REAR END LKS

ITEM#	DESCRIPTION	QTY
HOURGLASS 5/8	HOURGLASS 5/8 SHOCK BUSHING	4
142121	ES24 SLEEVE/402087 1.38"	4
12X3FTB	1/2 X 3 FINE THREAD BOLT	4
12FTN	1/2-20 FINE N/I LOCK NUT	4
12SAEW	1/2 SAE WASHER	8
38X1FTB	3/8 X 1 FINE THREAD BOLT	2
38FTN	3/8-24 FINE N/I LOCK NUT	2
38SAEW	3/8 SAE WASHER	2

Hardware Bag Breakdown:

HB-C766RTB HDWR BAG:C766 REAR TRK BRKT

ITEM#	DESCRIPTION	QTY
916X112FTB	9/16 X 1 1/2 FINE THRD BOLT	1
916X312FTB	9/16 X 3 1/2 FINE THRD BOLT	1
916SAEW	9/16 SAE WASHERS	4
916FTN	9/16-18 NYLON INSERT LOCKNU	2

I-C766SP

FRONT DISASSEMBLY:

1. With the vehicle on flat level ground, set the emergency brake & block the rear tires. Place a floor jack under the lower control arm's front crossmember & raise the vehicle. Place jack stands under the frame rails behind the front wheel wells & lower the frame onto the stands.
2. Remove the front tires using a 22mm socket. (See Photo # 1)
3. Remove the tie rod end nut from the knuckle using a 18mm socket. Remove the tie rod end from the knuckle by using a tie rod puller. (See Photo # 2)
4. Disconnect the brake caliper from the rotor & disconnect the brake line from the upper A-arm. (See Photo # 3) Simply wire the brake caliper out of the way. It will not be necessary to disconnect the brake line from the caliper.
5. Disconnect the sway bar end links using a 15mm socket & remove the sway bar. (See Photo # 4). Disconnect the three upper strut retaining nuts using a 18mm socket. (See Photo # 5)
6. Disconnect the upper & lower A-arms from the knuckles using a 18mm socket. It may be necessary to strike the side of the knuckle to dislodge the ball joint. Be careful not to damage the ball joint itself. (See Photo # 6)



7. Disconnect the CV shaft using a 15mm socket. (See Photo # 7)
8. Remove the front skid plates (If equipped) using a 15mm socket. Disconnect the lower A-arm using a 24 & 18mm socket.
9. Disconnect the factory rear crossmember using a 18mm socket. (See Photo # 8)
10. Support the front differential using a transmission jack. Remove the differential mounting bolts using a 18mm & 15mm socket. (See Photo # 9) Remove the differential.
11. It will be necessary to cut the driver side frame rail where the rear crossmember was located. With the crossmember removed, measure toward the frame 3.5" & cut. (See Photo # 10) **Note:** It will be necessary to grind down the forward lip on the frame for clearance of the CV spacers included. (See Arrow in Photo # 10)
12. It will be necessary to modify the passenger differential pad for clearance. Measure from the backside of the differential mount bolt location toward the rear of the pad. Mark a line at 5/8" & cut off the excess. (See Photo # 11)
13. Install the new Skyjacker driver & passenger differential brackets using the OEM hardware. Be sure to install so that the tallest portion of the bracket is towards the front. With the brackets installed, install the differential using the 9/16" x 2" coarse thread bolts on the passenger side & the 1/2" x 2" fine thread bolts on the driver side. Be sure to use the supplied square shim under the passenger side differential pad where it was previously cut. (See Photo # 12) Reconnect the front drive shaft.



Photo #7



Photo #8



Photo #9



Photo #10

I-C766SP



Photo #11

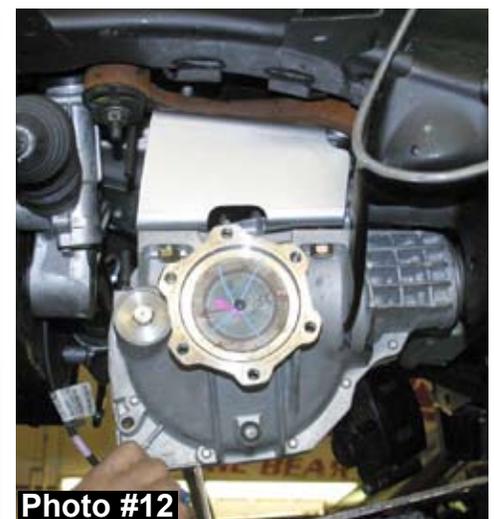


Photo #12

14. Install the new Skyjacker rear crossmember using the 5/8" x 5 1/2" fine thread bolts, washers, & nuts. (See Photo # 13)
15. Install the new Skyjacker front crossmember using the same hardware. Be sure to use the supplied crush sleeve along with the the 5/8" bolts. Also be sure to use the supplied aluminum spacer between the front of the crossmember & the frame. (See Arrow in Photo # 14)
16. Attach the A-arms to the new Skyjacker crossmembers using the OEM hardware.
17. Using a 15mm socket, remove the hub bearing assembly from the OEM knuckle. Reinstall using the OEM bolts on the new Skyjacker knuckles. (See Photo # 15)
18. Install the new Skyjacker strut spacer on the top of each OEM strut using the OEM hardware & 18mm wrench. (See Photo # 16)
19. Install the strut assembly using the OEM lower bolts & the six 10mm nuts supplied for the upper strut spacer. (See Photo # 17, 18, & 19)



Photo #13

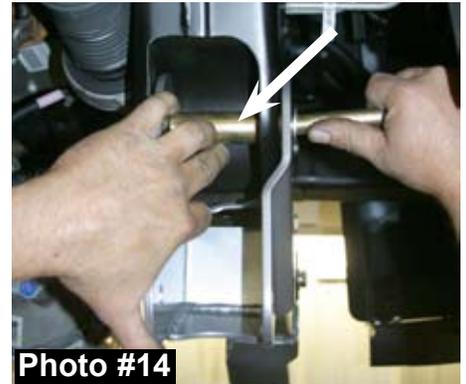


Photo #14



Photo #15



Photo #16



Photo #17
I-C766SP



Photo #18



Photo #19

20. Attach the new Skyjacker steering knuckle to the upper & lower A-arm using the OEM hardware. Install the CV shafts using the supplied aluminum CV spacers. Install using the supplied 10mm x 70 mm bolts & thread locking compound. (See Photo # 20)



21. Attach the ABS line to the steering knuckle using the 5mm x 12mm bolts supplied.

22. Relocate the ABS line using the bracket supplied. Attach the new Skyjacker bracket using the 5/16" x 1" fine thread bolt, washers, & nut. (See Photo # 21) Install the new Skyjacker brake lines using the supplied instruction sheet.



23. In order to maintain OEM alignment specifications, the inner & outer tie rod must be cut to obtain proper toe in. Remove the outer tie rod from the inner tie rod. Leaving the jam nut screwed onto the inner tie rod, measure 1/2" from the end of the inner tie rod & make a mark. Measure 1/2" from the end of the outer tie rod & make a mark. Using a cut-off wheel or similar tool, cut along both of these marks. Unscrew the jam nut to chase the threads of the inner tie rod. Reinstall the outer tie rod to the inner tie rod. Repeat this process on the opposite side of the vehicle. Driver & passenger side tie rods must be cut & adjusted equally to allow for proper toe in adjustment. (See Photo # 22)

The length of both the inner & outer tie rods must be cut 1/2". Refer to arrows below.

24. Attach the outer tie rod to the steering knuckles using the OEM hardware. Reinstall the brake rotors, calipers, & etc.



25. Reinstall the OEM sway bar using the new Skyjacker drop brackets. The brackets will install between the sway bar & the OEM mount on the frame using the 10mm x 30mm hardware supplied. (See Photo # 23) Install the new Skyjacker sway bar end links. Be sure to install the end link with the pivoting end at the A-arm. The gold washer should be on top of the A-arm, with the nut on the bottom. (See Photo # 24)



26. Install the new Skyjacker anti torque link by installing the bushing in the eye of the assembly. Attach the eye at the new Skyjacker crossmember using the 1/2" hardware supplied. Adjust out & attach the rod end to the lower ear on the differential using the inserts & 9/16" hardware supplied. Once installed, tighten the jam nut. (See Photo # 25)

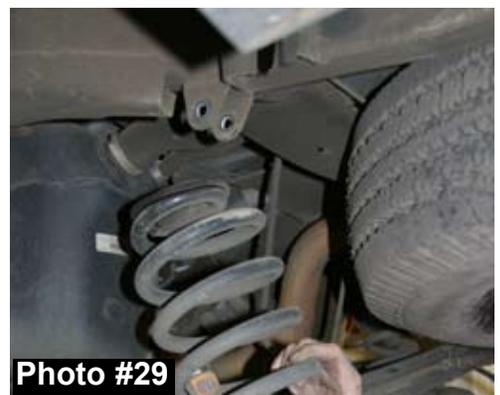
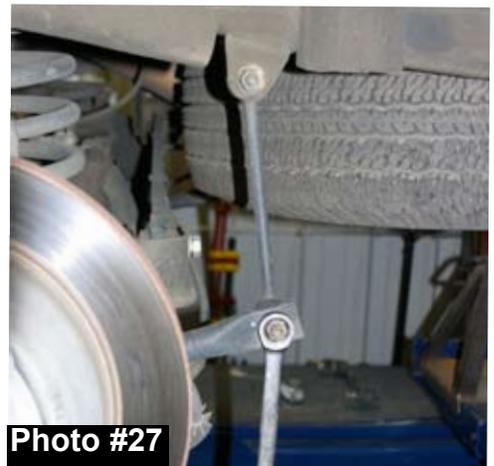
Pick-Up Models:

27. Raise the rear end of the vehicle & properly support using jack stands. Disconnect the rear shocks using a 21mm socket & U-bolts. Install the new Skyjacker 4.5" rear blocks (thick end towards the rear) along with the new Skyjacker U-bolts. (See Photo # 26) If installing Skyjacker Softride rear springs, simply remove the OEM spring & replace. **Note:** If changing rear leaf springs, it will be necessary to lower the gas tank down to gain access to the forward spring bolt.

28. Lower the vehicle to the ground & skip to step # 40.

SUV Models:

27. Remove the rear shocks using a 21mm socket. Disconnect the rear sway bar end links. (See Photo # 27)
28. Loosen the lower & upper control arm bolts using a 21mm socket. (See Photo # 28)
29. Disconnect the emergency brake cable from the driver side axle & passenger side frame using a 13mm socket. Disconnect the brakeline from the center of the axle.
30. Lower the axle down & remove the OEM coil springs. Be sure to retain the OEM upper & lower rubber isolator pads. (See Photo # 29)



31. Disconnect the OEM upper & lower control arms from frame rail. Only remove one side at a time so that the axle does not move. Install the new Skyjacker upper/lower arm relocation bracket.

Note: On the driver side only, be sure to install the supplied anti-crush sleeve into the OEM upper control arm position. (The sleeve is welded to the new Skyjacker bracket on the passenger side).

32. Attach using the OEM bolts in the OEM locations. Attach the upper arm to the new Skyjacker bracket using the 9/16" x 3 1/2" fine thread bolts, washers, & nuts. Attach the lower control arm to the new Skyjacker bracket using the 9/16" x 4" fine thread bolts, washers, & nuts. (See Photo # 30) Be sure to install the 1/2" x 1 1/4" fine thread bolt, washers, & nut into the bottom of the bracket. The bolt will line up with the OEM hole in the bottom of the frame. (See Arrow in Photo # 31)

33. Loosen the track bar mount bolt on the differential using a 21mm socket. Remove the track bar bolt from the frame.

34. Install the new Skyjacker track bar bracket by sliding it into the OEM bracket. Install using the 9/16" x 3 1/2" fine thread bolts, washers, & nut in the OEM bolt hole.

35. It will be necessary to drill a new hole through the back of the OEM bracket into the new Skyjacker bracket. It is recommended to first drill a small pilot hole, then drill using a 9/16" drill bit.

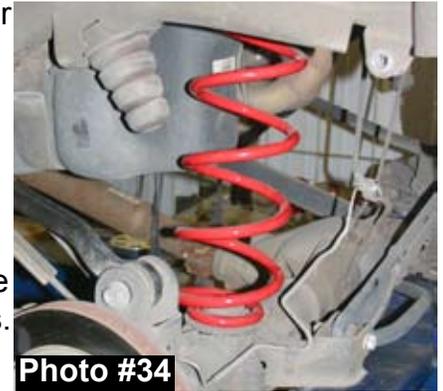
36. Once drilled, install the 9/16" x 1 1/2" fine thread bolt, washers, & nut. (See Photo # 32)

37. Attach the rearward hole of the new Skyjacker bump stop bracket to the OEM mounting hole on the axle using a 7/16" x 1" fine thread bolt, washers, & nut. To access the front mounting hole, it will be necessary to lower the bottom control arm out of the way. (See Photo # 33)

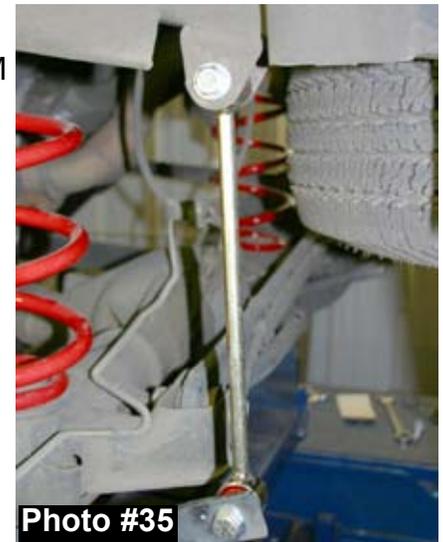
38. Mark & drill the front hole using a 29/64" drill bit. Once drilled, install the 7/16" x 1" fine thread bolt, washer, & nut.



39. Install the new Skyjacker coil springs using the OEM upper & lower rubber isolator pads. (See Photo # 34) Once installed, carefully load the rear suspension & attach the rear track bar to the new Skyjacker bracket using the OEM hardware.



40. Insert the 5/8" polyurethane hourglass bushings into each end of the new Skyjacker sway bar end links. Insert the 1/2" x 1 1/2" sleeve into each bushing. Attach the new sway bar end links to the OEM mounts using the 1/2" x 3" fine thread bolts, washers, & nuts. (See Photo # 35)



41. Install the new Skyjacker rear brakeline relocation bracket. Attach the bracket to the axle using the OEM hardware & attach the OEM brakeline to new Skyjacker bracket. (See Photo # 36)

42. Lower the vehicle to the ground & install new Skyjacker rear shocks.



FINAL NOTES:

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart again 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 realign the front end to the factory specifications.
- Retorque all the bolts after the first 100 miles.

TORQUE SPECIFICATIONS					
INCH SYSTEM			METRIC SYSTEM		
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 FTLB	18MM	170 FT LB	240 FT LB

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

Seat Belts Save Lives, Please Wear Your Seat Belt.

**Part #
C7660PK**

