



# Installation Instructions:

(Part # SB612822)

2014 GM 2500/3500

M1 Front Bumper Kit

**NOTE: Carefully read entire instructions thoroughly before attempting to install this part.**

Parts Included	Qty
93-9665 M1 Front Bumper	1
93-9656 Winch Mounting Plate	1
93-9650 Frame Rail Support Bracket	4
93-9653 Sensor Plug Plate	4
90-9654 Bumper Shim: 1/8"	4
90-9655 Bumper Shim: 1/4"	4
90-9348 Nut Plate: Drvr	4
93-9345 Sensor Hole Cover Plate	1
90-8338 Crush Sleeve	4
90-9651 Window Bezel: Drvr	1
90-9652 Window Bezel: Pass	1
93-7829 License Plate Mount	1
90-7318 Fog Light Bracket: DLAA LA5070	2
S/B612800-01 3 1/2" Clear Driving Light Kit	1
S/B612800-02 2 1/2" Amber Driving Light Kit	1
90-6886 Hardware Pack: Front Bumper	2
1/2" SAE Hardened Flat Washer	4
1/2" Stover Nut	4

Parts Included	Qty
90-6626 Hardware Pack: Driving Lights/license plate	5
1/4"-20 X 3/4" Hex Bolt Gr. 8	2
1/4"- 20 Nylock Nut	2
1/4" SAE Flat Washer	4
90-6887 Hardware Pack:	1
1/4"-20 X 3/4" Stainless Button Head Bolt	8
1/4"-20 Nylock Nut	8
1/4"-20 Flat Washer	8
90-6888 Hardware Pack: Window Bezels	1
#10-24 X 3/4" Stainless Button Head Bolt	8
#10-24 Nylock Nut	8
#10-24 SAE Flat Washer	8
90-6976 Hardware Pack: Winch Mount Plate	1
7/16" X 5 1/4" Hex Bolt Gr. 8	4
7/16" Stover Nut	4
7/16" SAE Hardened Flat Washer	8
90-6892 Hardware Pack: Winch Mount Plate	1
7/16" X 1 1/4" Hex Bolt Gr. 8	2
7/16" Stover Nut	2
7/16" SAE Hardened Flat Washer	4



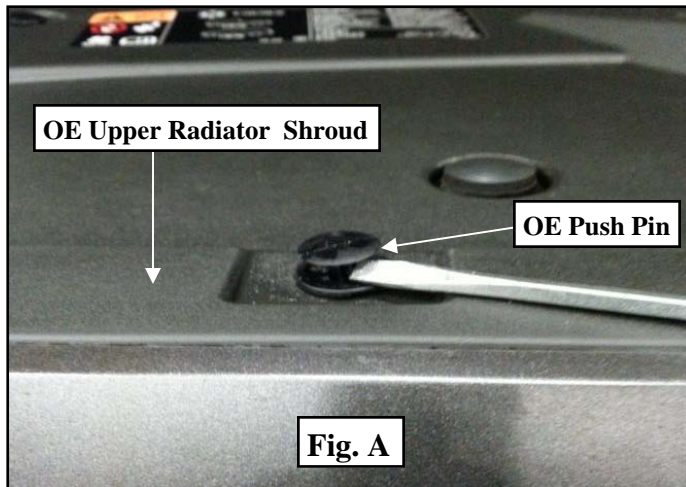
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### INSTALLATION:

**Step 1:** Place masking tape on the areas of the front fenders, headlights and grill that can be scratched by removal of the OE front bumper.

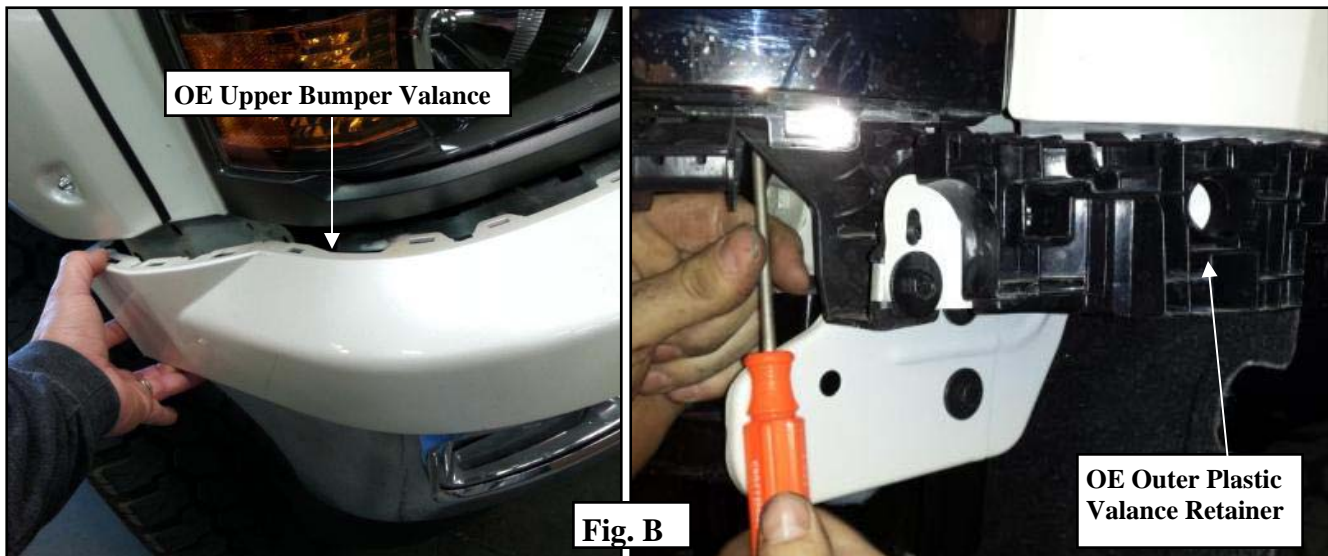
**Step 2:** Unclip and remove the OE upper radiator shroud by removing the (12) OE push pins. (Fig A)



**Step 3:** Unclip the wiring harness for the fog lights and parking sensor from the OE front bumper if so equipped.

**Step 4:** Unbolt and remove the front license plate from the vehicle. Save for reinstallation.

**Step 5:** Remove the OE upper bumper valance by removing the (2 per side) OE bolts located to the outer edge of the valance. Carefully, pry the OE upper bumper valance away from the vehicle and remove it. Remove the OE outer plastic valance retainers located on the side outer bumper mounting surfaces. (Fig B).

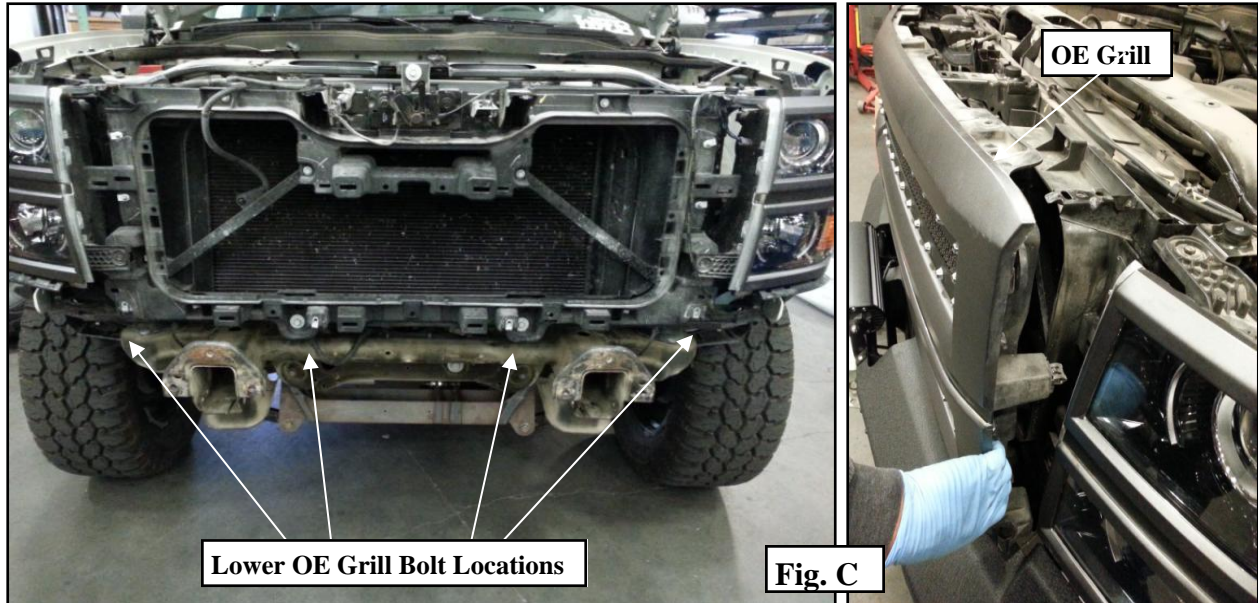




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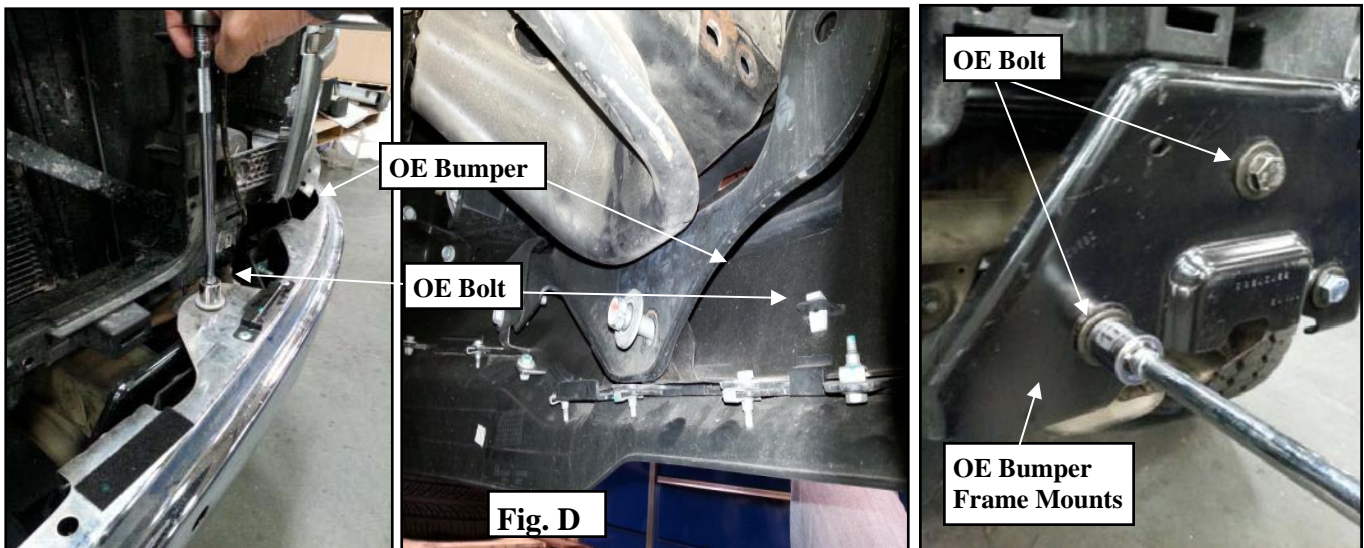
**Step 6:** Remove the (8) OE screws (4 top and 4 bottom) from the OE grill. Carefully pry the OE grill from the vehicle. (Fig C)



**Step 7:** Unbolt and remove the OE tow hooks from the vehicle frame rails. Save the OE bolts for reinstallation.

**Step 8:** Unbolt the (3 per side) OE bumper mounting bolts from the frame and carefully remove the OE front bumper from the vehicle. Unbolt and remove the OE frame to bumper mounts. Save OE hardware for reinstallation. (Fig D)

**IMPORTANT!:** Refer to your GM factory manual for your, vehicle specific, bumper removal instructions.



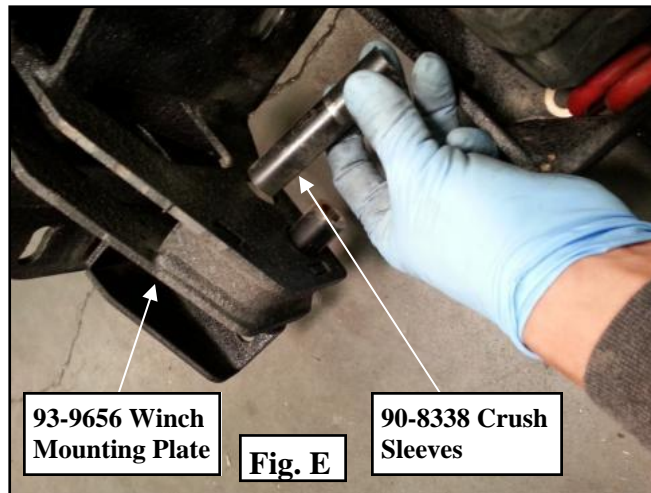


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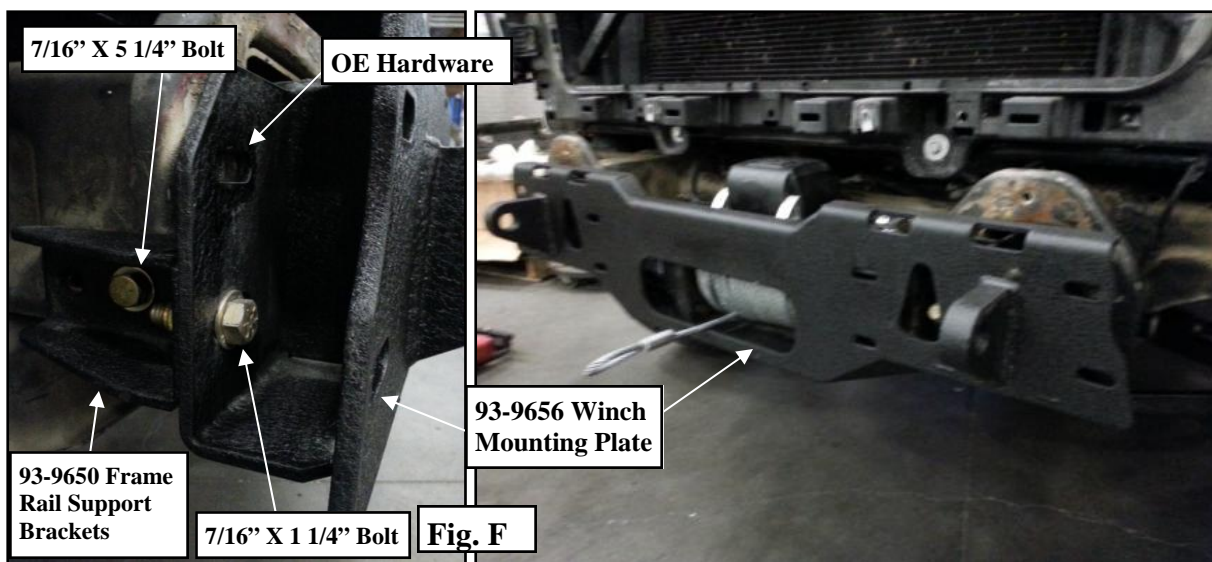
**IMPORTANT!:** If you are installing a winch, do so at this time. The winch will be secured to the winch mounting plate (93-9656) by the hardware supplied in the winch kit. Be sure to pull the winch cable and hook through the window in the winch mounting plate. Leave at least 3 to 4 feet of slack in the cable.

**Step 9:** Install the crush sleeves (90-8338) into the winch mounting plate (93-9656) mounts. (Fig E)



**Step 10:** Lift the winch mounting plate (93-9656) onto the OE frame rails. Secure the winch mounting plate and the frame rail support brackets (93-9650) to the frame rails using the supplied (2 per side) 7/16" X 5 1/4" bolts and hardware. Install Be careful not to hit the radiator or coolers. Tighten the 7/16" hardware according to the torque chart on page 9. (Fig F)

**NOTE:** Be sure to center the cradle between rails, due to irregularities from the manufacturer, you may need to adjust the winch mounting plate left or right to center the D-rings for the front bumper shell installation.



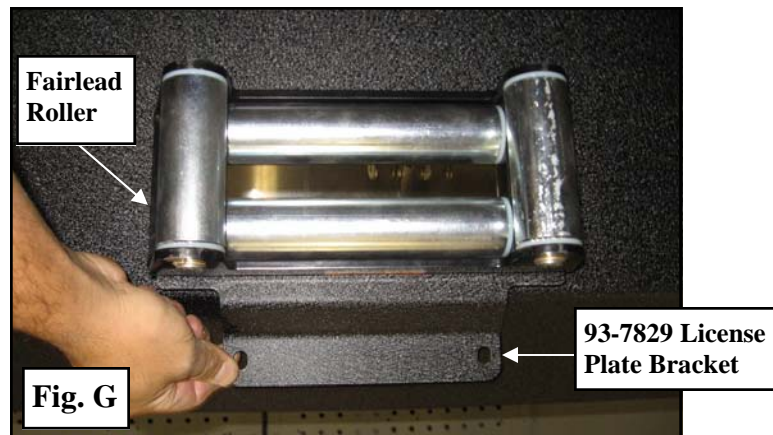


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**Step 11:** Install the license plate bracket (93-7829) and fairlead roller onto the new M1 bumper (93-9665). (Fig G) Secure the license plate to the license plate bracket using the (2) supplied 1/4" X 3/4" bolts and hardware.

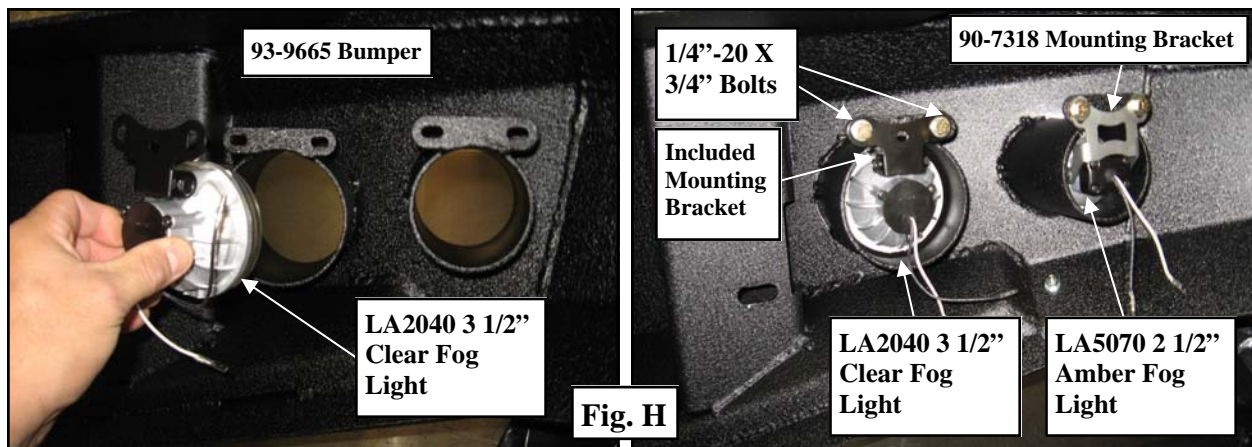
*NOTE: Bracket may be installed above or below fairlead.*



**Step 12:** Modify the vehicle wiring harness and DLAA fog light connector.

**IMPORTANT!:** DO NOT connect the winch or fog lights wiring harnesses until the bumper is fully installed.

**Step 13:** Install the bracket (90-7318) to the 2 1/2" amber DLAA fog light (LA5070) as a replacement for the included mounting bracket from amber driving light kit (S/B612800-02). (Fig H)



**Step 14:** Install the included mounting bracket to the 3 1/2" clear DLAA fog light (LA2040) from clear driving light kit (S/B612800-01). (Fig H)

**Step 15:** Install the fog lights into the new M1 front bumper (93-9665) using the supplied (4 per side) 1/4"-20 X 3/4" bolt and hardware. (Fig H)



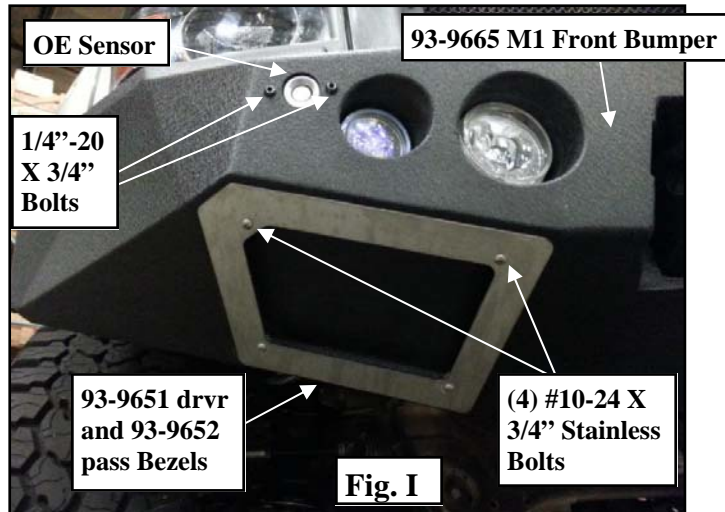
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**Step 16:** Install the stainless steel window bezels (90-9651 *drv*r and 90-9652 *pass*) to the new M1 front bumper (93-9665) using (4 per side) 10-24 X 3/4" stainless button head bolts and #10 hardware. (Fig I)



**Step 17:** If equipped, install the previously removed OE sensor into the M1 front bumper (93-9665) (Fig I)

*NOTE: For vehicles without sensors, attach the sensor cover plates (93-9345) to the M1 bumper instead.*

**Step 18:** Insert the (4) nut plates (90-9348) into the bumper mounting flanges. (Fig J)



**Step 19:** Pull the tow hook through the roller fairlead on the bumper. (Fig K)

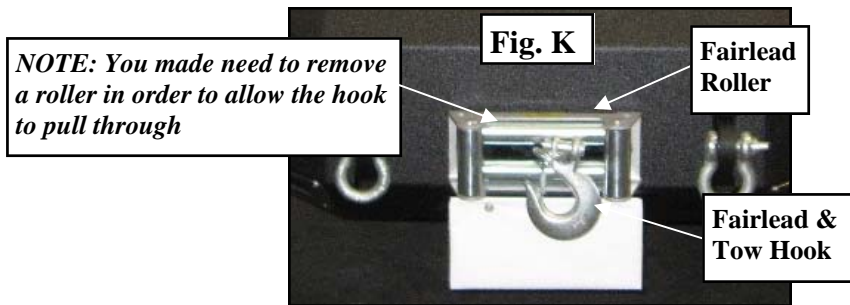


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**Step 20:** Carefully raise, while pulling the winch cable and keeping it tight, and install the new M1 bumper (93-9665) assembly onto the winch plate (93-9656). Secure using the supplied (4) nut plates (90-9348), (8) 1/2" nuts and SAE 1/2" washers. (Fig L)

**NOTE:** 1/4" shims (90-9654) and 1/8" (90-9655) shims are provided to assist proper bumper alignment, if necessary. Install the shims as necessary and tighten the 1/2" hardware.





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**Step 21:** With the M1 bumper (93-9665) properly aligned on the vehicle, torque the 1/2" bumper mounting bracket hardware according to the torque chart on page 9. Center the D-rings on the bumper and tighten. (Fig L)

**Step 22:** Reinstall the OE front grill using the previously removed OE screws.

**Step 23:** Reinstall the OE upper radiator shroud using the previously removed OE push pins.

**Step 24:** Install the winch wiring per the manufacturer's instructions. Carefully route the (+) lead keeping it clear of sharp metal, areas of excessive heat or any moving parts. Secure the leads using zip ties.

**NOTE:** *Be sure to select clean area and sand away the wax coating/paint to ensure a proper ground connection.*

**Step 25:** Connect the fog light and OE sensor wiring connectors to the connectors on the vehicle. Test, aim & adjust the fog lights at this time.

**Step 26:** Installation is now complete. (Fig M)







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Use this only as a guide for hardware without a called out torque specification in the instruction manual.

<b>Bolt Torque and ID</b>						
<b>Decimal System</b>			<b>Metric System</b>			
All Torques in Ft. Lbs. Maximums						
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130	165	210
3/4	185	280	M18	170	240	290

1/2-13x1.75 HHCS  
 Grade 5    Grade 8  
 (No. of Marks + 2)

D T L X

M12-1.25x50 HHCS

D T L X

G = Grade (Bolt Strength)  
 D = Nominal Diameter (Inches)  
 T = Thread Count (Threads per Inch)  
 L = Length (Inches)  
 X = Description (Hex Head Cap Screw)

P = Property Class (Bolt Strength)  
 D = Nominal Diameter (Millimeters)  
 T = Thread Pitch (Thread Width, mm)  
 L = Length (Millimeters)  
 X = Description (Hex Head Cap Screw)