



Installation Instructions:

(Part # SB612850)
2007-2013 TOYOTA FJ CRUISER
M1 Front Bumper Kit

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

Parts Included	Qty
93-9101 M1 Front Bumper	1
93-9117 Winch Mounting Plate	1
90-9131 Window Bezel: Drvr	1
90-9132 Window Bezel: Pass	1
90-7926 Nut Plate	2
93-7829 License Plate Mount	1
90-9135 Bumper Shim: 1/8"	2
90-9136 Bumper Shim: 1/4"	2
S/B612800-01 3 1/2" Clear Driving Light Kit	1
90-9137 XRC Winch Box Relocation Bracket	2
90-9138 X20 Winch Box Relocation Bracket	2
90-9139 A/C Hard Line Relocation Bracket	1
90-3240 -6 Adel Clamp	1
90-9510 Washer Reservoir Cover	1
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

Parts Included	Qty
90-6626 Hardware Pack: Lights/license plate/winch/adel	6
1/4"-20 X 3/4" Hex Bolt Gr. 8	2
1/4"- 20 Nylock Nut	2
1/4" SAE Flat Washer	4
90-6502 Hardware Pack: Front Bumper	2
1/2" X 1 1/4" Hex Bolt Gr. 8	2
1/2" SAE Hardened Flat Washer	2
90-6908 Hardware Pack: Winch Relocation Bracket	1
6mm-1.0 X 16mm Hex Bolt	4
6mm- 1.0 Nylock Nut	4
6mm Washer	8
90-6892 Hardware Pack: Fair lead/license plate bracket	1
7/16" X 1 1/4" Hex Bolt Gr. 8	2
7/16" Stover Nut	2
7/16" SAE Hardened Flat Washer	4
90-6948 Hardware Pack: Washer Reservoir Cover	1
5/16" X 3/4" Button Head Allen Bolt Black	3
5/16" Nylock Nut	3
5/16" Flat Washer	3

Product cleaning and maintenance instructions

Stainless Steel Finish – Aluminum polish may be used to polish small scratches and scuffs on the finish. Mild soap, window or glass cleaner may be used to clean the finish. **Dual state powder coat finish** – Mild soap, window or glass cleaner may be used to clean the finish. In order to protect the finish, you may wax your product on a regular basis with pure carnauba automotive wax. Do not use any types of soap, polish or wax that contains abrasive that could damage the finish. **Textured coated finishes** should be cleaned with a mild soap on a damp sponge. Do not apply polish or wax that requires to be removed by means of buffing. This type of wax is commonly used at car wash facilities. **Chrome Finish** – Mild soap, window or glass cleaner may be used to clean the finish. In order to protect the finish you should wax your product on a regular basis with pure carnauba automotive wax. Do not use any types of soap, polish or wax that contains abrasive that could damage the finish

For Technical Support/Warranty Information please call 310-762-9944
Smittybilt, 400 W. Artesia, Compton, CA 90220

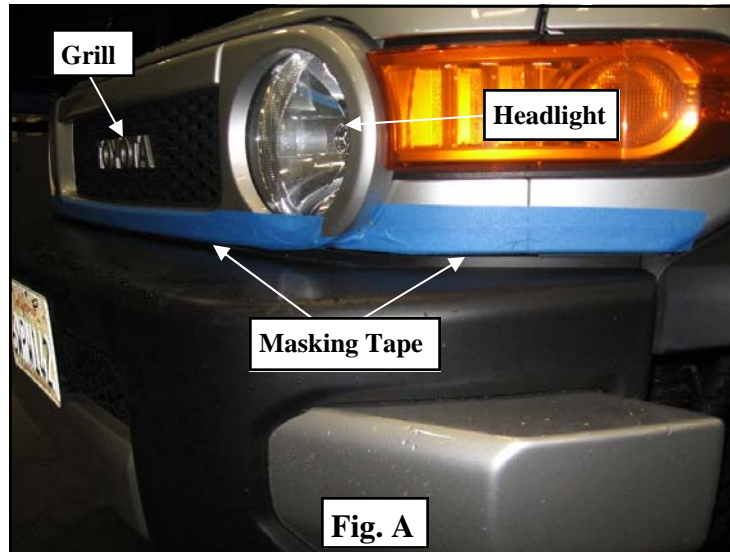


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INSTALLATION:

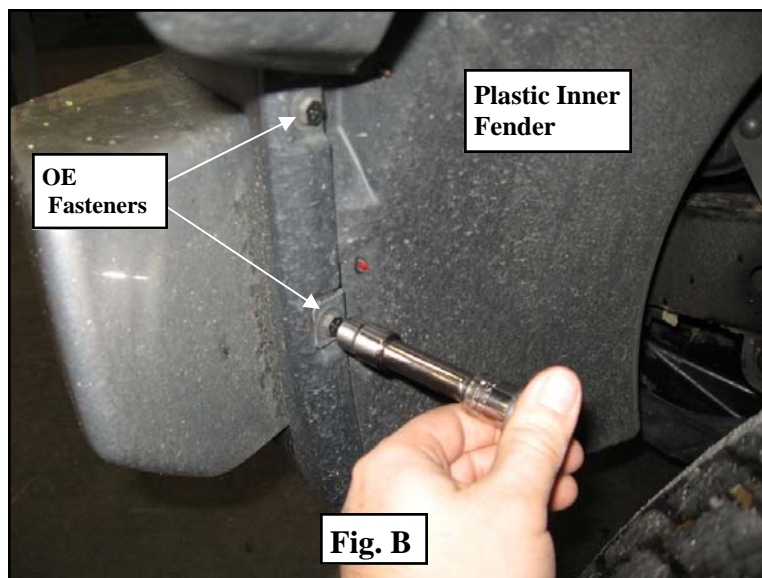
Step 1: Place masking tape on the areas of the front fenders, headlights and grill that can be scratched by removal of the OE front bumper. (Fig. A)



Step 2: Unbolt and remove the license plate from the bumper.

Step 3: Unplug the wiring harness for the fog lights at the main connector.

Step 4: Remove the (2) OE fasteners from the lower front of the plastic inner fender wells. (Fig. B)

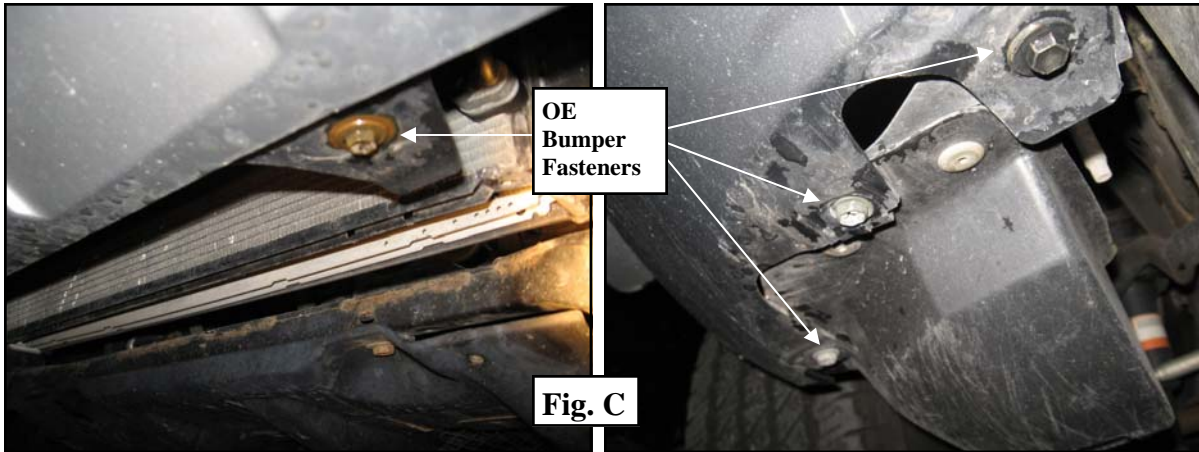




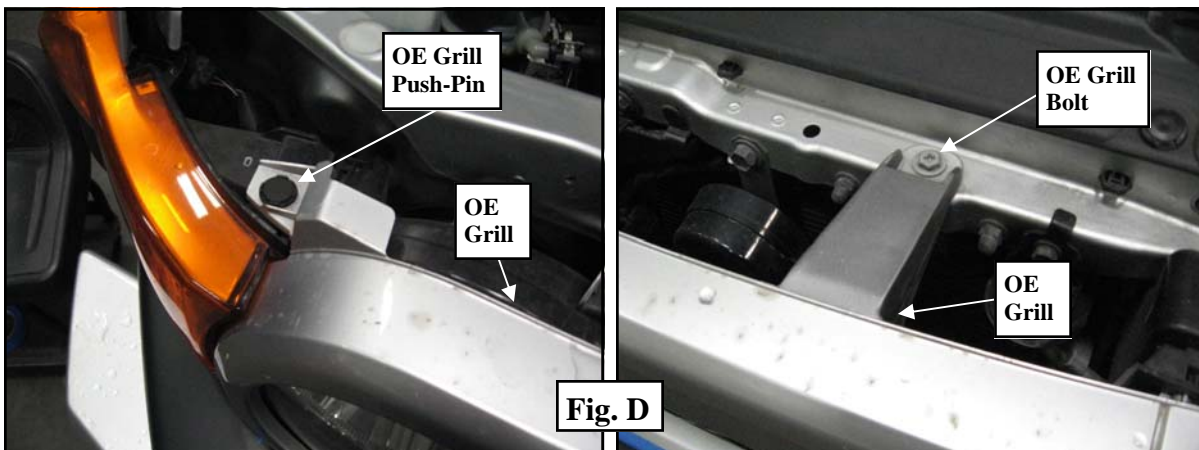
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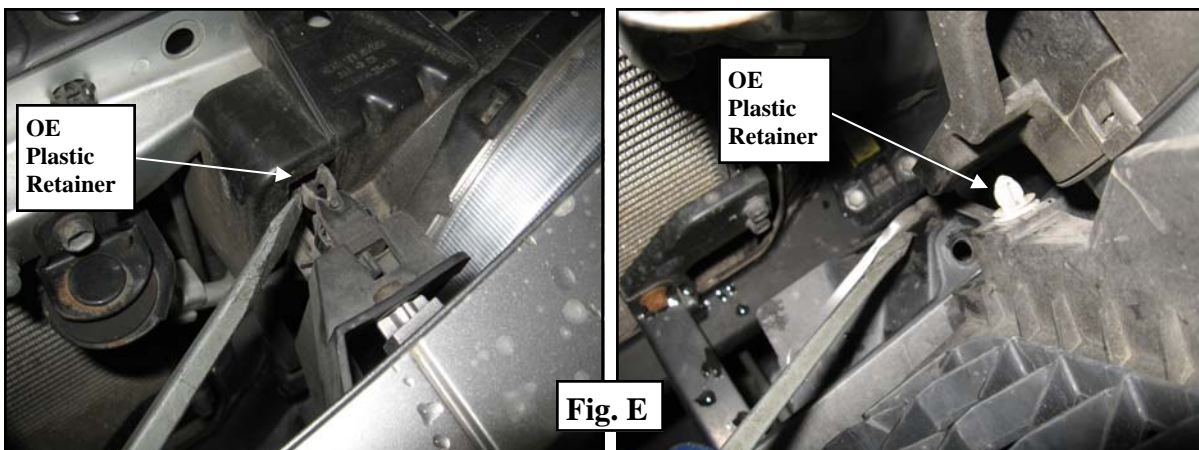
Step 5: Remove the (4) OE fasteners on the bottom side of the bumper. (Fig. C)



Step 6: Unbolting the grill will make removing the front bumper easier. Start by removing the (4) OE fasteners (2 OE push-pins and 2 OE bolts) from the top of the grill. (Fig. D)



Step 7: Carefully release the OE plastic retainers and remove the grill. (Fig. E)

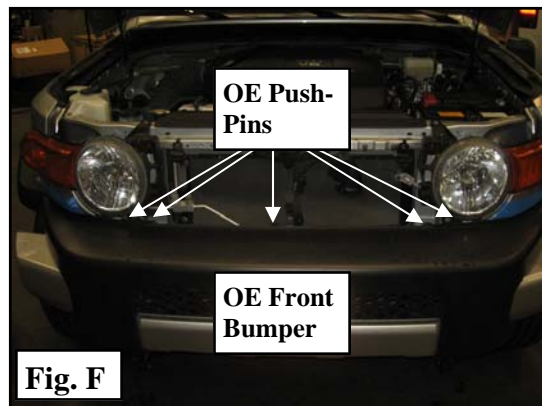




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Step 8: Remove the (5) OE plastic push-pins from the bumper. (Fig. F)

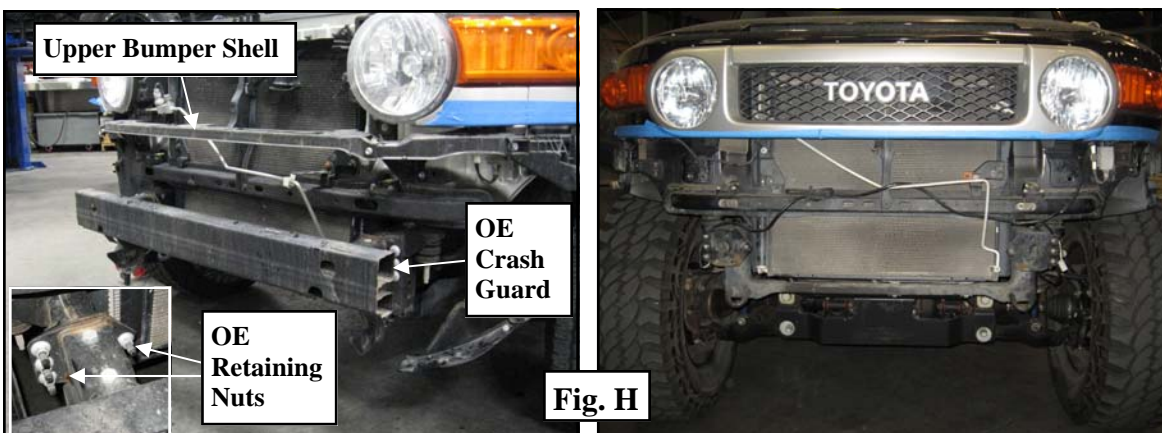


Step 9: Unclip the OE front bumper and carefully remove the bumper from the vehicle. Save OE hardware for reinstallation. (Fig G)

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



Step 10: Unbolt the (4 per side) OE retaining nuts. Remove the crash guard and upper bumper shell. Save the OE nuts for reinstallation. (Fig. H)



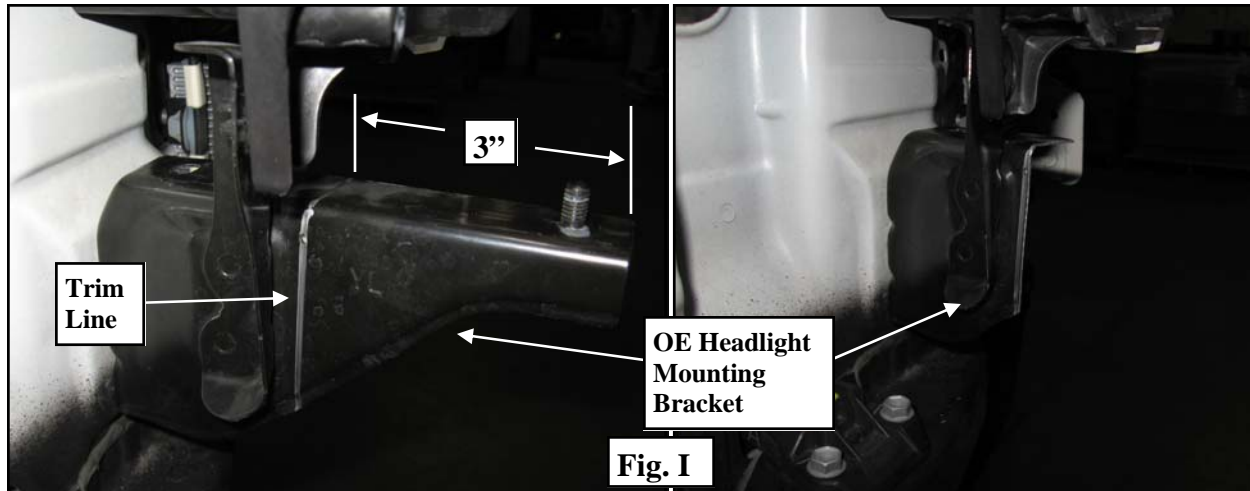
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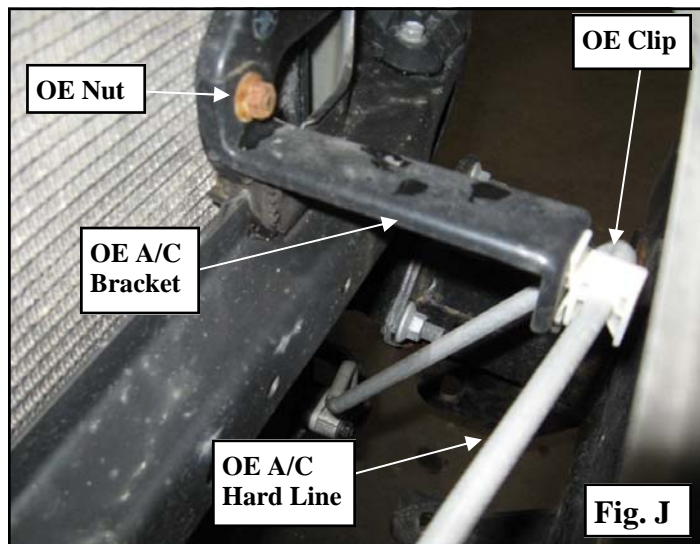
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Step 11: Some newer model vehicles will need to have the headlight mounting bracket trimmed before installing the new bumper. Measure in **3"** from the edge of the bracket and scribe a line. Using a suitable cutting tool, (abrasive cutoff wheel, Sawz-all, etc.) trim the headlight bracket. (Fig. I)



Step 12: Unclip the A/C hard line and unbolt the OE bracket. Save the OE nut for reinstallation. (Fig. J)



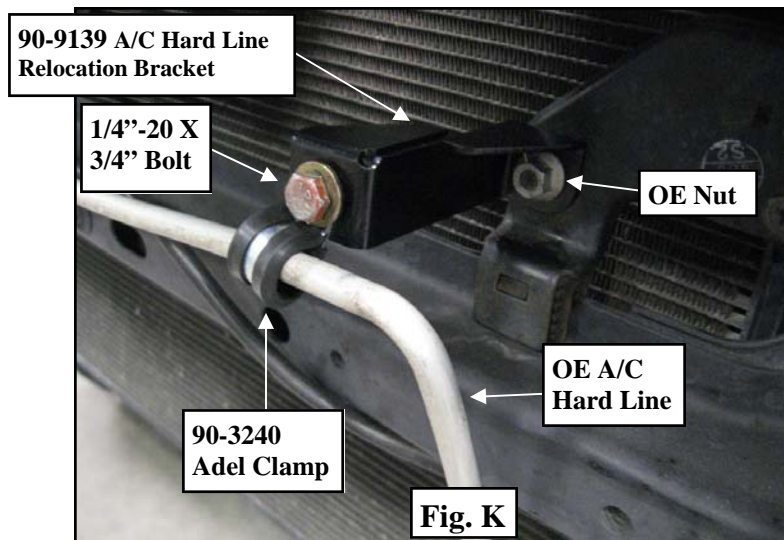
Step 13: Install the new A/C hard line relocation bracket (**90-9139**) using the previously removed OE nut. (Fig. K)

Step 14: Carefully bend the A/C hard line back towards the bracket and secure using the provided Adel clamp (**90-3240**) and **1/4"-20 X 3/4"**. (Fig. K)



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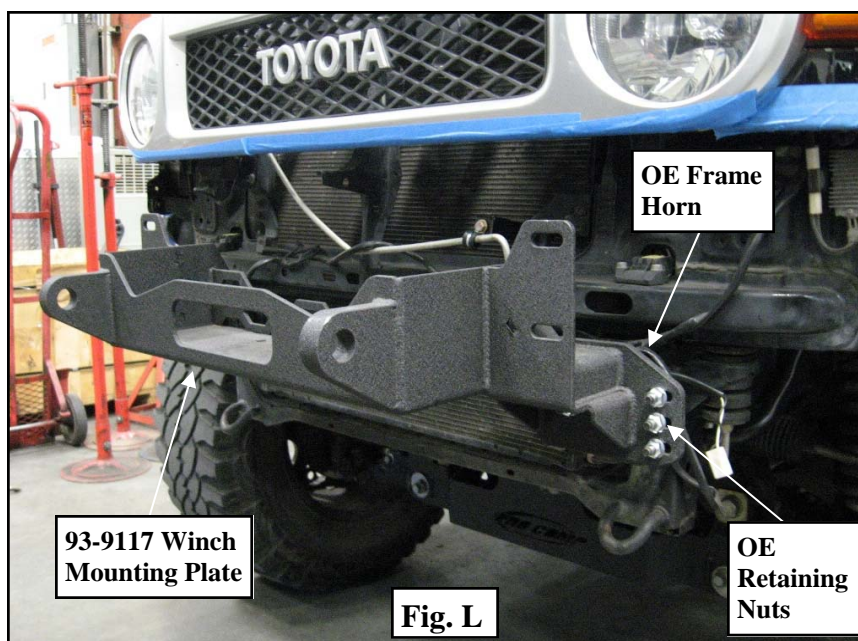
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Step 15: Reinstall the OE grill to the vehicle using the previously removed OE hardware.

Step 16: Lift the winch mounting plate (93-9117) onto the frame horns and center on the OE studs. Secure the winch mounting plate (93-9117) to the bumper mounting brackets using the previously removed (4 per side) OE retaining nuts. Be careful not to hit the radiator or coolers. Torque the OE nuts to manufacturers specifications. (Fig L)

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.

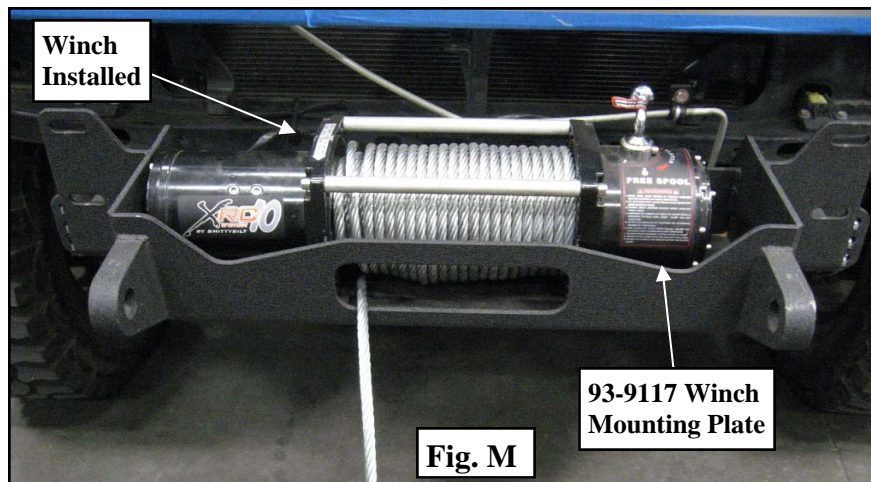




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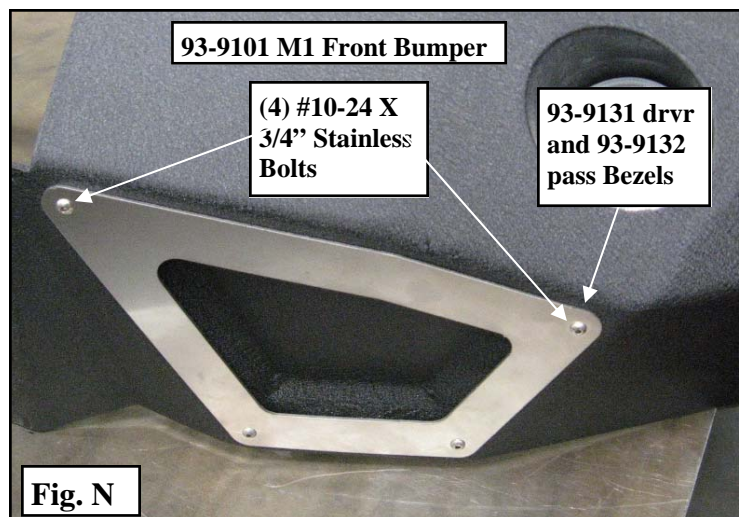
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Step 17: If you are installing a winch, do so at this time. The winch will be secured to the winch mounting plate (93-9117) by the hardware supplied in the winch kit. Be sure to pull the winch cable and hook through the window in the winch mounting plate. Leave at least 3 to 4 feet of slack in the cable. (Fig. M)



NOTE: Do not install the winch control box at this time. It will be installed later.

Step 18: Install the window bezels (90-9131 driver and 90-9132 passenger) to the new M1 front bumper (93-9101) using (4 per side) 10-24 X 3/4" stainless button head bolts and #10 hardware. (Fig N)



Step 19: Modify the vehicle wiring harness and DLAA fog light connector.

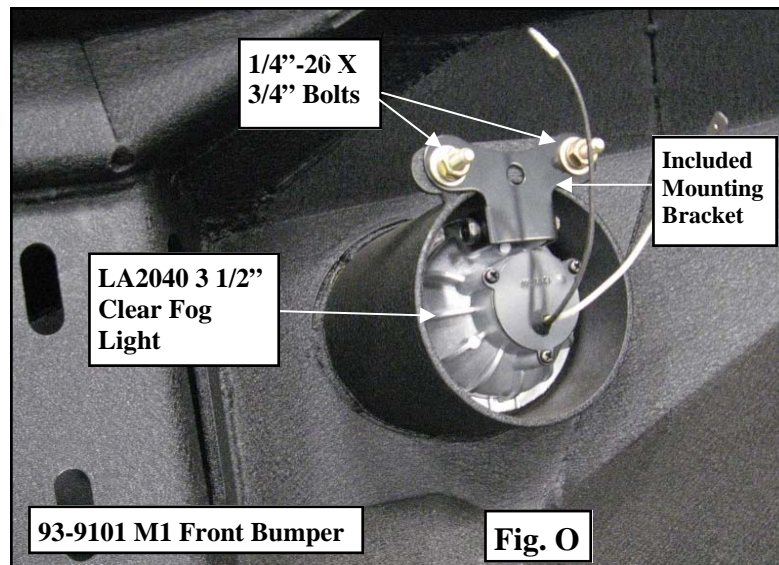
IMPORTANT!: DO NOT connect the winch or fog lights wiring harnesses until the bumper is fully installed.

Step 20: Install the included mounting bracket to the 3 1/2" clear DLAA fog light (LA2040) from clear driving light kit (S/B612800-01). (Fig O)



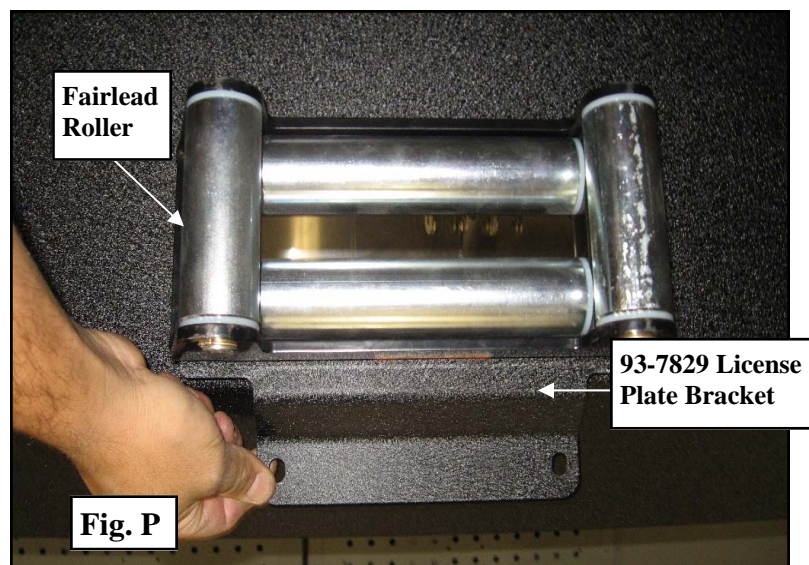
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Step 21: Install the fog lights into the new M1 front bumper (93-9101) using the supplied (2 per side) 1/4"-20 X 3/4" bolt and hardware. (Fig O)

Step 22: Install the license plate bracket (93-7829) and fairlead roller onto the new M1 bumper (93-9101) using supplied 7/16" X 1 1/4" bolts and hardware. Secure the license plate to the license plate bracket using the (2) supplied 1/4" X 3/4" bolts and hardware. (Fig. P)

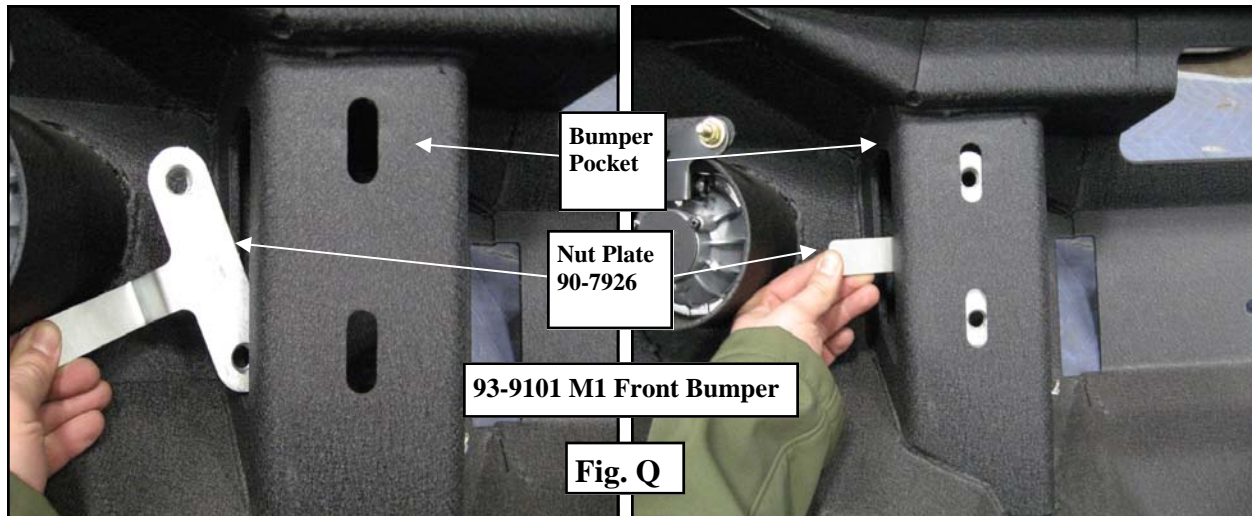




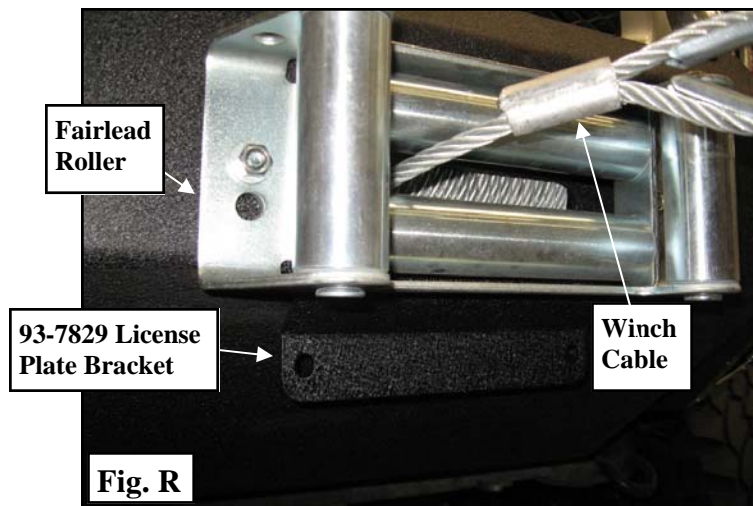
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Step 23: Install the nut plates (90-7926) into the pockets on the M1 front bumper. (Fig Q)



Step 24: Pull the winch cable through the roller fairlead on the bumper. (Fig R)



Step 25: Carefully raise, while pulling the winch cable and keeping it tight, and install the new M1 bumper (93-9101) assembly onto the mounting flanges on the winch mounting plate (93-9117). Secure using the supplied (2 per side) 1/2" X 1 1/2" bolts, (1 per side) nut plates (90-7926) and (2 per side) USS 1/2" washers. (Fig S)

NOTE: 1/4" shims (93-9136) and 1/8" (93-9135) shims are provided in the event that proper bumper alignment can not be achieved. Install the shims as necessary and tighten the 1/2" bolts.

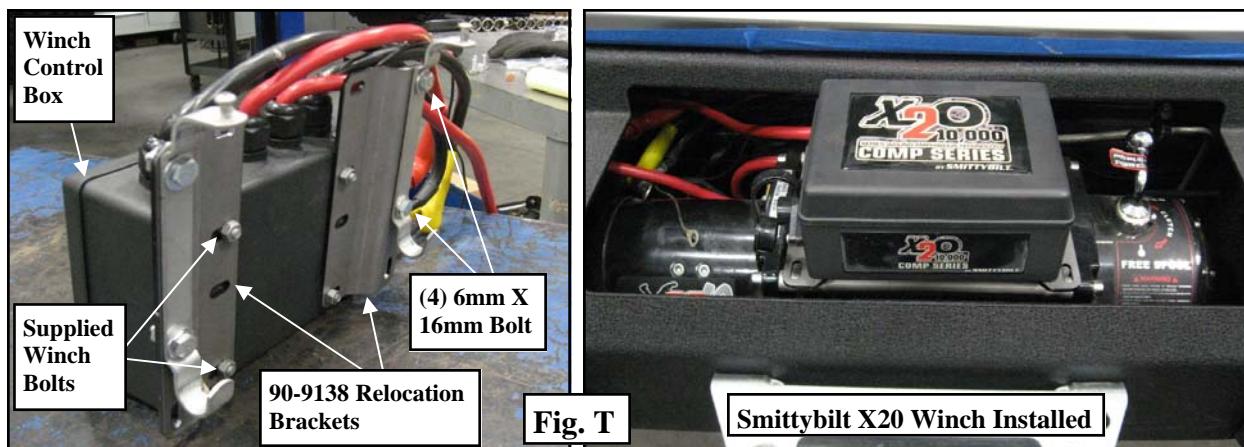


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Step 26: If you purchased a Smittybilt X20 winch kit, use the winch control box relocation brackets (90-9138), mounting hardware provided in the winch kit and the (4) provided 6mm X 16mm bolts and hardware. (Fig T)

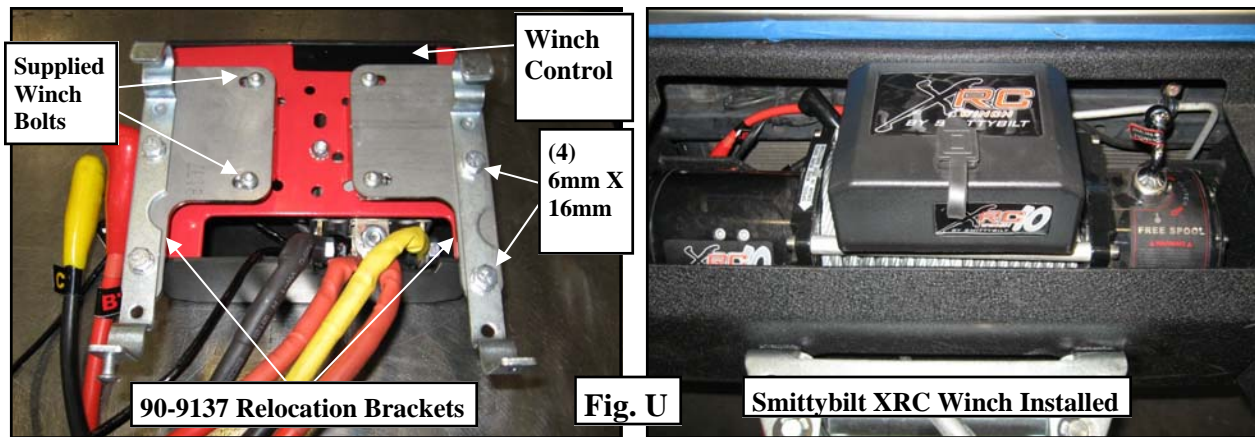


Step 27: If you purchased a Smittybilt XRC winch kit, use the winch control box relocation brackets (90-9137), mounting hardware provided in the winch kit and the (4) provided 6mm X 16mm bolts and hardware. (Fig U)



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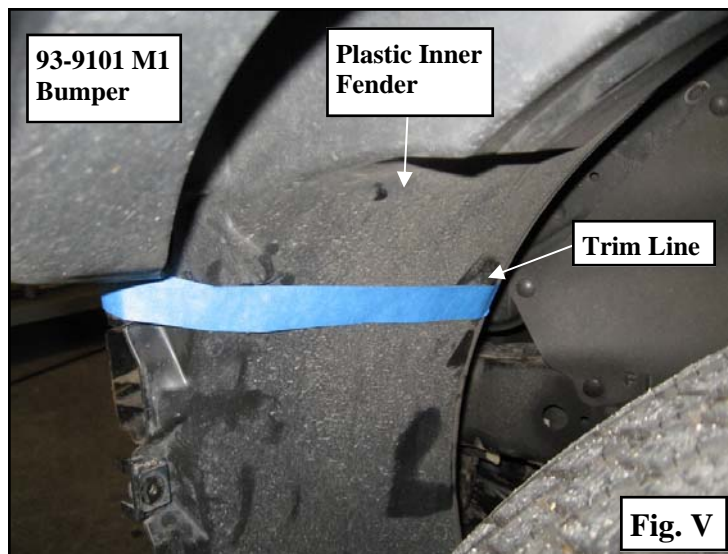
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Step 28: Install the winch wiring per the manufactures instructions. Carefully route the (+) lead keeping it clear of sharp metal, areas of excessive heat or any moving parts. Secure the leads using the supplied zip ties.

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

Step 29: It may be necessary to trim the plastic inner fender liners to line up correctly with the new bumper. To trim, use the lower edge of the bumper as a guide, mark and trim the OE plastic inner fender using a razor knife or another suitable cutting tool. Trim the inner fender, as needed, to line up correctly with the M1 bumper (93-9101). (Fig V)



Step 30: Connect the fog light wiring connectors to the connectors on the vehicle. Test, aim & adjust the fog lights at this time.



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Step 31: If your vehicle has an exposed windshield wiper reservoir, install the wiper reservoir cover (90-9510) to the (3) larger holes in the passenger side of the M1 (93-9101) bumper using the (3) supplied 5/16" X 3/4" and hardware. Secure the (2) smaller cover holes using the (2) lower 10-24 X 3/4" stainless window bezel bolts and hardware. (Fig W)



Fig. W

Step 32: Installation is now complete. (Fig X)



Fig. X



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

Bolt Torque and ID						
Decimal System			Metric System			
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

<p>1/2-13x1.75 HHCS</p> <p>D T L X</p>	<p>Grade 5 Grade 8</p> <p>(No. of Marks + 2)</p>	<p>M12-1.25x50 HHCS</p> <p>D T L X</p>
<p>G = Grade (Bolt Strength)</p> <p>D = Nominal Diameter (Inches)</p> <p>T = Thread Count (Threads per Inch)</p> <p>L = Length (Inches)</p> <p>X = Description (Hex Head Cap Screw)</p>		<p>P = Property Class (Bolt Strength)</p> <p>D = Nominal Diameter (Millimeters)</p> <p>T = Thread Pitch (Thread Width, mm)</p> <p>L = Length (Millimeters)</p> <p>X = Description (Hex Head Cap Screw)</p>



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Limited Warranties

Smittybilt's products are covered under the following limited warranties only. Note that the duration of the limited warranty differs according to the material and finish of the product purchased. Subject to the duration and conditions of the limited warranty stated below, Smittybilt warrants to the original retail purchaser that its products are free from defects in material and workmanship. All other warranties and representations express or implied, are hereby disclaimed, including fitness for merchantability and buyer's intended use or purpose. All parts are sold "AS IS" except for the limited warranties granted herein. Buyer assumes all risks as to the selection, suitability and performance of all goods and products selected. This limited warranty does not cover damage or impairment in any part due to misuse, improper installation, accident or contact with on-road or off-road hazards, product modification, improper or inadequate cleaning and/or maintenance. Smittybilt is not responsible for items damaged during shipping. This warranty is not transferable from the original buyer. For the original Buyer to be eligible for the limited warranty coverage, the Buyer must provide proof of purchase. Smittybilt strongly recommends returning the warranty registration card.

Customer's remedy hereunder shall be limited only to repair or replacement (at Smittybilt's option) of any defective part(s) returned to Smittybilt at customer's expense. The determination of whether or not a returned part is defective or subject to coverage under the limited warranties stated herein shall be made at Smittybilt's sole discretion.

Duration of Limited Warranty

Limited Lifetime Warranty on Stainless Steel Products -

Smittybilt stainless steel products carry the foregoing limited repair or replacement warranty against workmanship and defects in the material so long as the original purchaser retains the original stainless steel parts.

Limited Five (5) Year / 50,000 Mile Pro-Rata Warranty (whichever occurs first) on Dual-Stage Powder Coating Products -

Smittybilt dual-stage powder coated products carry the foregoing limited repair or replacement warranty for a period of (5) years or 50,000 miles (whichever occurs first) from date of purchase against workmanship and defects in the material, provided that any claim submitted after (2.5) years from date of purchase shall, if accepted, be satisfied by Smittybilt offering customer a credit on the purchase of a replacement product equal to fifty percent (50%) of customer's initial purchase price.

Limited Three (3) Year / 36,000 Mile Pro-Rata Warranty (whichever occurs first) on Chrome Products-

Smittybilt chrome products finished carry the foregoing limited repair or replacement warranty for a period of three (3) years or 36,000 miles against workmanship and defects in the material (whichever occurs first) from the date of purchase.

To assure product quality, Smittybilt reserves the right to change product design, material, specification and finishes without prior notice to customers. This limited warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply as to you. Also, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Smittybilt reserves the right to discontinue product lines and substitute products, or provide other remedies than those listed in this limited warranty for those discontinued products.

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