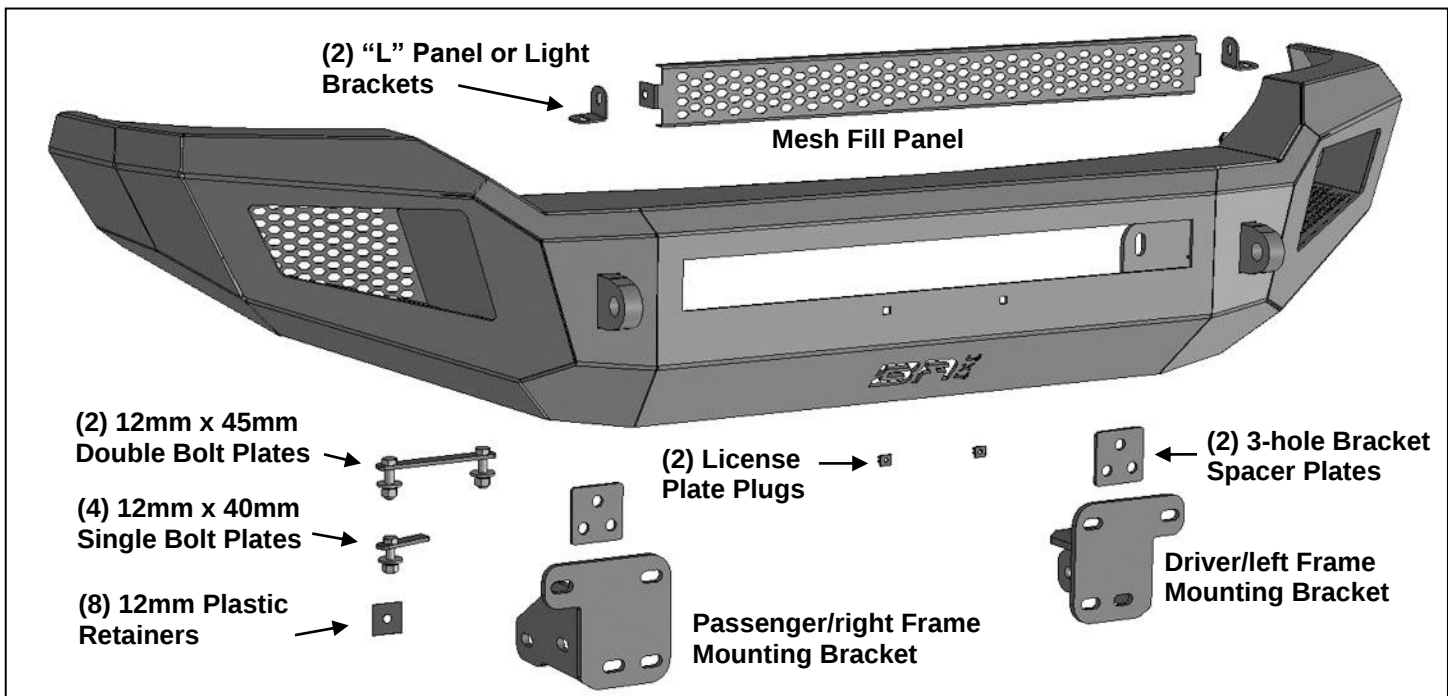


2011-2016 F250/350 SUPER DUTY AMBUSH SERIES FRONT BUMPER (NON-WINCH) PART #FD-21338

PARTS LIST:

1	Ambush Front Bumper Assembly	10	12-1.75mm x 50mm Hex Bolts
2	3-hole Bracket Spacer Plates	28	12mm x 32mm x 3mm Flat Washers
1	Driver/left Frame Mounting Bracket	18	12mm Lock Washers
1	Passenger/right Frame Mounting Bracket	18	12-1.75mm Hex Nuts
1	Center Mesh Fill Panel	4	8-1.25mm x 25mm Hex Bolts
2	Center Mesh Panel or LED Brackets	2	8-1.25mm x 16mm Hex Bolts
2	Plastic Plugs for license plate mount	8	8mm x 24mm x 2mm Flat Washers
2	12mm x 45mm Double Bolt Plates	4	8mm Lock Washers
4	12mm x 40mm Single Bolt Plates	4	8mm Hex Nuts
8	12mm Plastic Retainers	10	200mm Cable Ties
1	4mm wrench		



PROCEDURE:

REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. BUMPER IS HEAVY, ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE.

1. Remove the license plate and bracket. On models with factory fog lights, unplug both lights. Release the wiring harness from the clips attached to the back of the bumper, **(Figures 1 & 2)**. Move harness away from bumper.
2. Release the rubber air deflector from the back of the bumper. Next, remove the bumper supports attached to the bumper frame bracket and outer ends of the bumper, **(Figure 2)**.
3. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the (4) factory bumper bolts, **(Figure 3 & 4)**.

WARNING! Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling. Carefully slide the bumper off over the tow hooks.

4. Remove the driver/left side tow hook from the end of the frame, **(Figures 4 & 5)**. Next, remove the (4) factory hex nuts, lower frame extension if equipped and double bolt plates from the end of the frame, **(Figures 1 & 4)**. Repeat this **Step** to remove the passenger/right side tow hook and lower frame extension.
5. Next, select the driver/left Frame Bracket, **(Figure 7)**. Slide the Bracket over the end of the frame.
6. Select (1) 3-hole Spacer Plate, **(Figure 6)**. Line up the Spacer with the (3) holes in the top of the driver/left Bracket and frame. Attach the Spacer Plate to the top of the Bracket and frame with (3) 12mm x 50mm Hex Bolts, (6) 12mm Flat Washers, (3) 12mm Lock Washers and (3) 12mm Hex Nuts, **(Figure 7)**. Leave hardware loose.
7. Line up the (2) slots in the outer side of the Bracket with the holes in the side of the frame. Insert (2) 12mm Bolt Plates up and out through the frame and Bracket, **(Figure 8)**. Attach the Bracket to the outside of the frame with the included (2) 12mm Flat Washers, (2) 12mm Lock Washers and (2) 12mm Hex Nuts. Leave hardware loose.
8. Next, select (1) 12mm Double Bolt Plate and (2) 12mm Plastic Retainers, **(Figure 9)**. Insert the Bolt Plate through the top two slots in the Bracket, from the back with the threaded bolt ends to the front. Thread (2) Plastic Retainers onto the threaded ends of the Bolt Plate. **NOTE:** Plastic Retainers are included to hold the Bolt Plate in position during Bumper installation. Use is not mandatory.
9. Repeat **Steps 5—8** to attach the passenger/right Frame Bracket and Spacer Plate to the top of the passenger/right side of the frame.
10. Carefully unwrap the Ambush Bumper. Determine if center LED bar style light or the included Fill Panel will be installed.

Mesh Fill Panel installation (do not install Fill Panel with light).

- a. Select (1) “L” Bracket, **(Figure 10)**. Attach the Bracket to the driver/left mounting tab on the back of the Bumper with the included (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut. Repeat to install the remaining “L” Bracket on the passenger/right side of the Bumper.
- b. Attach the Center Fill Panel to the “L” Brackets with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Lock Washers, (2) 8mm Flat Washers and (2) 8mm Hex Nuts, **(Figure 11)**. Do not fully tighten hardware at this time. Adjust position and tighten hardware.

Center LED light installation (sold separately). **NOTE:** It may be easier to attach the light before Bumper Assembly is attached to the Brackets.

- a. Select (1) “L” Bracket, **(Figures 10)**. Attach the Bracket to the driver/left mounting tab on the back of the Bumper with the included (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut. Repeat to install the remaining “L” Bracket on the passenger/right side of the Bumper.
- b. Attach the LED light assembly to the “L” Brackets with the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers, **(Figures 12 & 13)**. Do not fully tighten hardware at this time. Adjust light position and tighten hardware.
- c. Follow light manufacturer’s instructions to wire the light to the vehicle’s electrical system once Bumper has been fully installed.

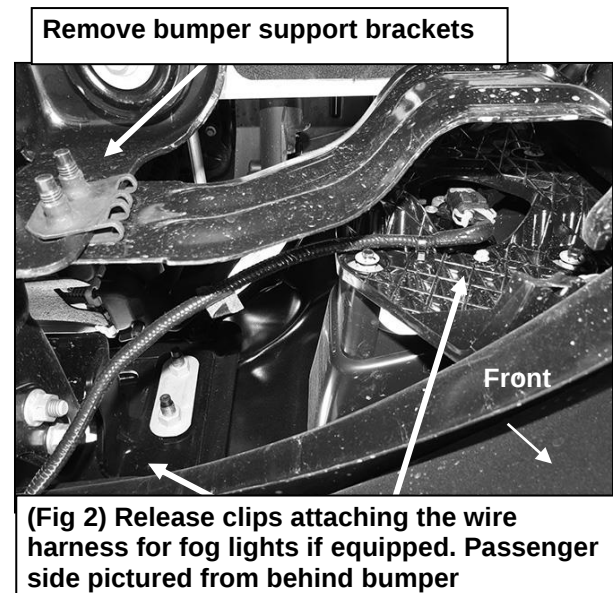
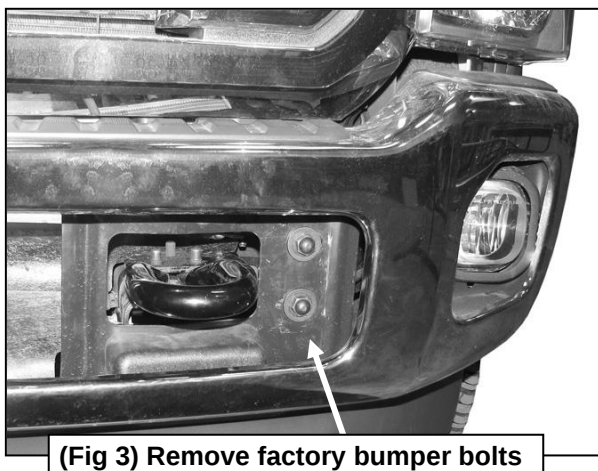
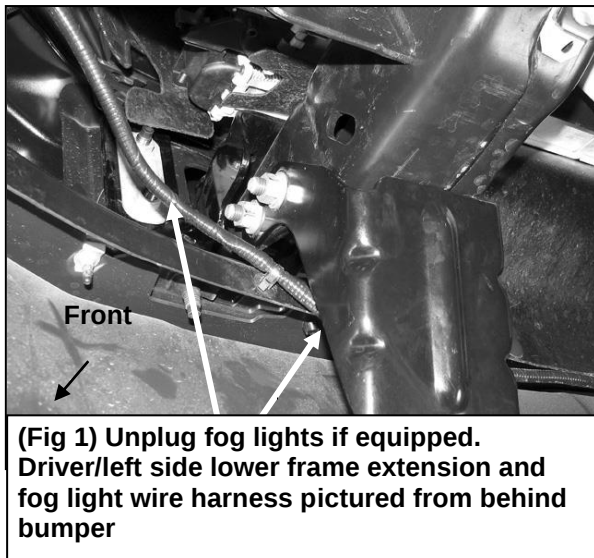
LED light installation at ends of bumper (sold separately).

- a. Insert light into opening and up to mounting slots. Check for clearance between front and back of light. If necessary, remove the screens from the back of the openings, **(Figure 14)**.
- b. Follow the light manufacturer’s instructions to attach each light to slot in the top of the light opening, **(Figure 14)**. **NOTE:** On two light systems, attach the flood light to the outer slot and the spot light to the inner slot.
- c. Repeat the above steps for passenger/right side light installation.
- d. Follow light manufacturer’s instructions to properly wire the light to the vehicle electrical system.

11. With assistance, carefully position the Bumper Assembly up to the Brackets and Bolt Plates on the end of the frame. Temporarily support the weight of the Bumper. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the bumper is fully and safely supported.
12. Line up the top slots in the plates on the back of the Bumper with the 12mm Double Bolt Plates in the Brackets. Attach the Bumper to the Brackets and Bolt Plates with the included (4) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, **(Figure 15)**. Attach the bottom of the Bumper to the Brackets with (4) 12mm x 50mm Hex Bolts, (8) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, **(Figure 15)**. Do not fully tighten hardware at this time.
13. Level and adjust the Bumper and fully tighten all hardware.
14. If front license plate is required, insert (2) Plastic Plugs into the square holes in the Bracket. Reuse the factory screws to attach the license plate to the plastic plugs, **(Figure 16)**.
15. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

To protect your investment, Do not use any type of polish or wax that may contain abrasives that could damage the finish. Mild soap may be used to clean the Ambush Front Bumper assembly.

Driver Side Installation Pictured

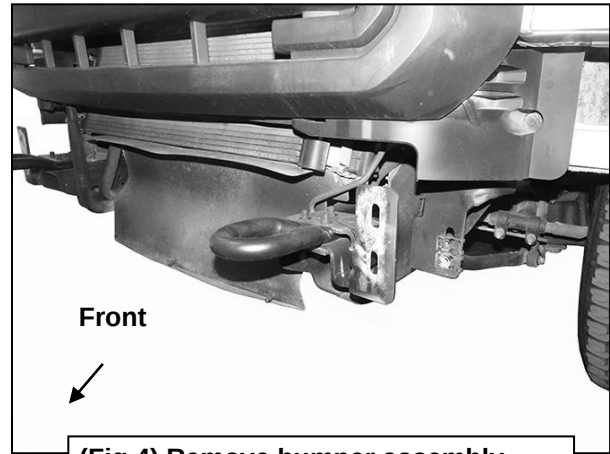


WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or it may fall.

Driver Side Installation Pictured



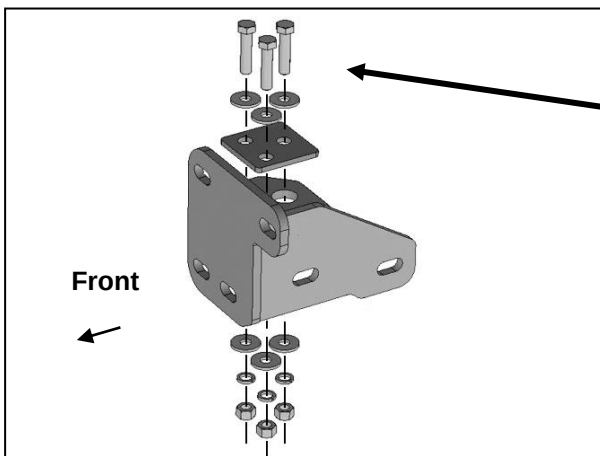
(Fig 5) Remove tow hooks (driver/left side of frame pictured)



(Fig 4) Remove bumper assembly



(Fig 6) 3-hole Spacer

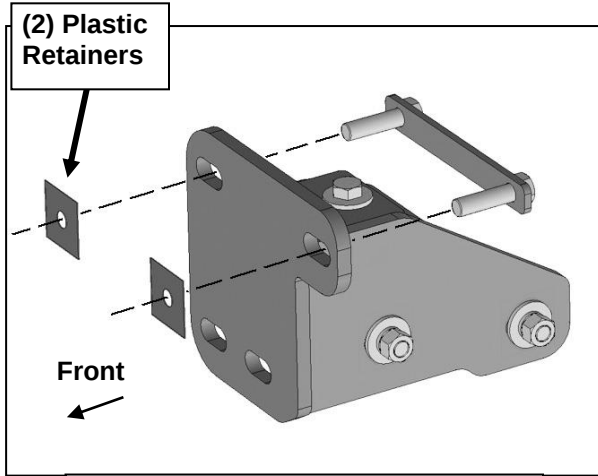


- (3) 12mm x 50mm Hex Bolts
- (6) 12mm Flat Washers
- (3) 12mm Lock Washers
- (3) 12mm Hex Nuts

INSTALLATION INSTRUCTIONS

Driver/left Side Installation Pictured

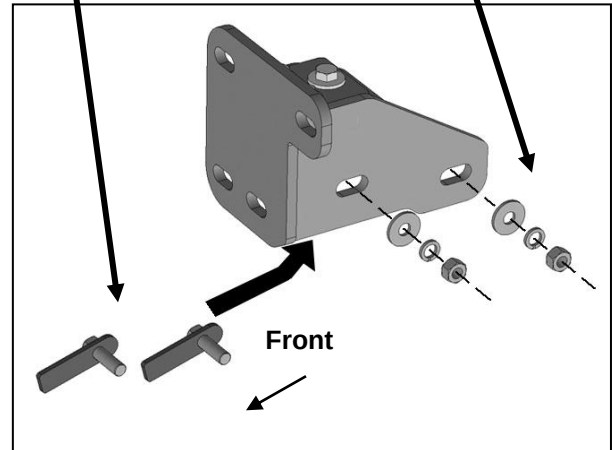
(Fig 7) Attach Spacer and driver/left Frame Bracket to top of frame



(Fig 9) Attach Double Bolt Plate to top slots in Mounting Bracket

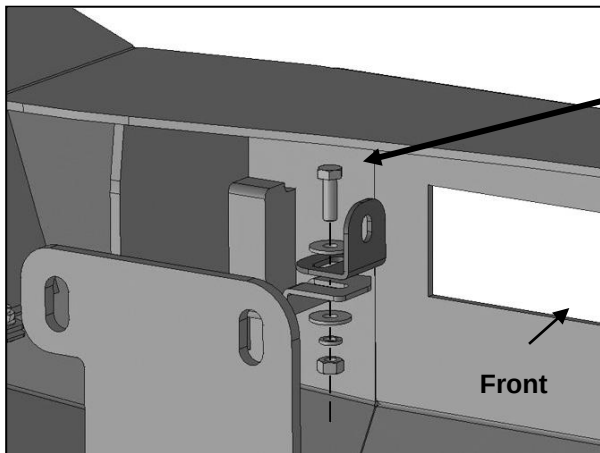
(2) 12mm Single Bolt Plates

(2) 12mm Flat Washers
(2) 12mm Lock Washers
(2) 12mm Hex Nuts



(Fig 8) Insert (2) Single Bolt Plates into frame and out through Bracket

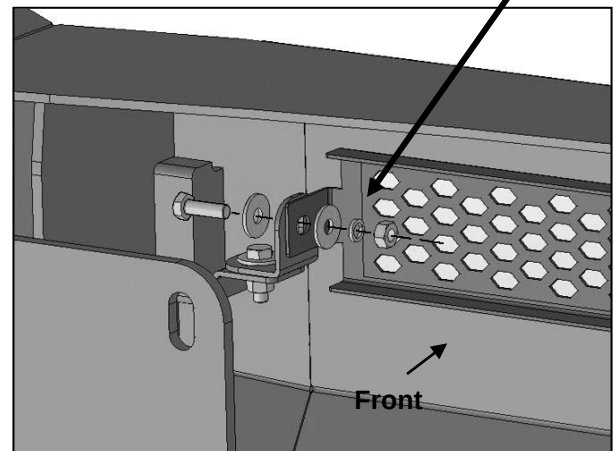
WARNING! Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.



(Fig 10) Attach "L" Bracket to mounting tabs on back of Bumper

8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut

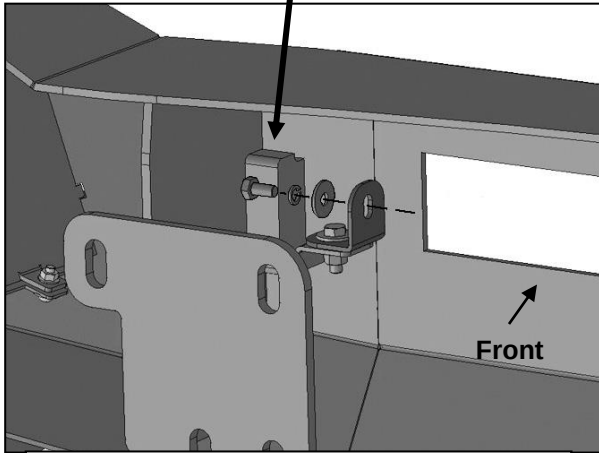
8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut



(Fig 11) Attach Mesh Fill Panel to "L" Brackets

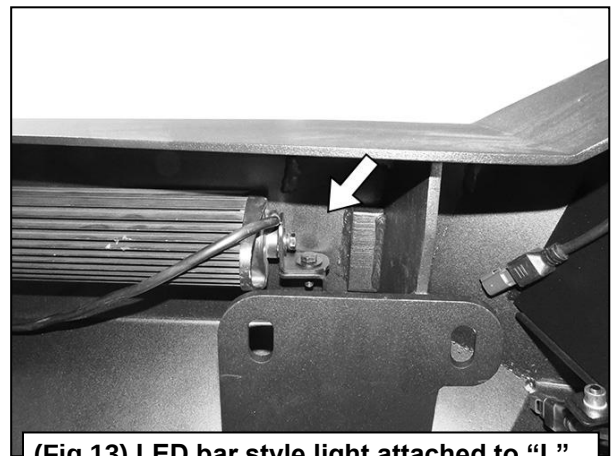
Driver/left Side Installation Pictured

8mm x 16mm Hex Bolt
8mm Lock Washer
8mm Flat Washer

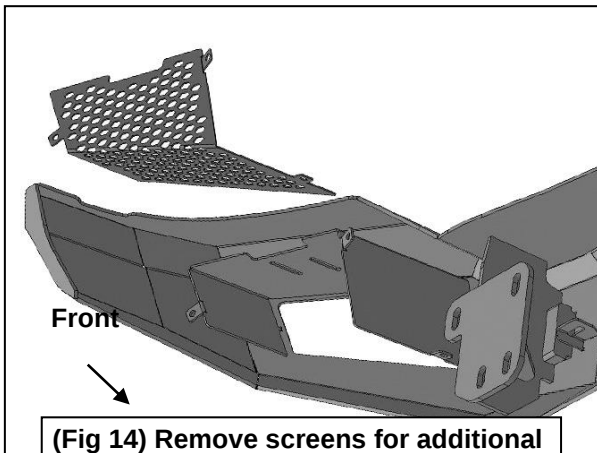


(Fig 12) Attach LED bar style light to "L" Brackets (driver/left side illustrated)

WARNING! Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.



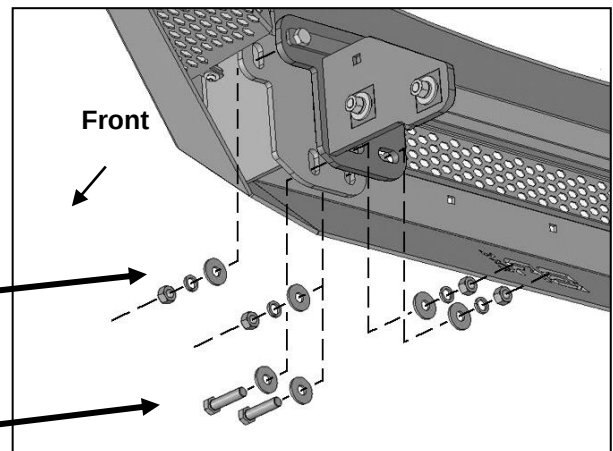
(Fig 13) LED bar style light attached to "L" Bracket (passenger/right side pictured)



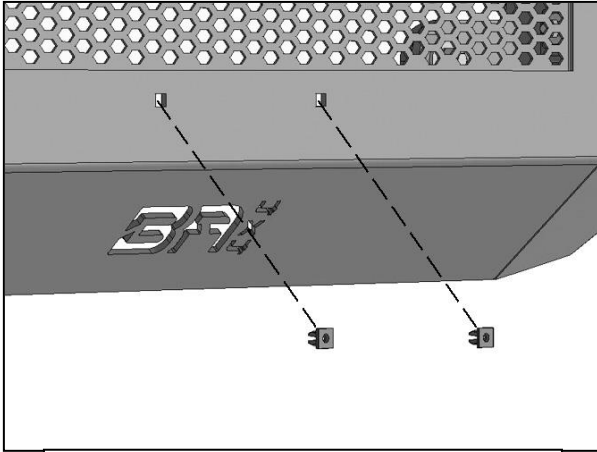
(Fig 14) Remove screens for additional light clearance if needed

To Double Bolt Plate
(2) 12mm Flat Washers
(2) 12mm Lock Washers
(2) 12mm Hex Nuts

Bottom of bracket
(2) 12mm x 50mm Hex Bolts
(4) 12mm Flat Washers
(2) 12mm Lock Washers
(2) 12mm Hex Nuts



(Fig 15) Attach Bumper to Brackets



(Fig 16) Push plastic plugs into holes in Bumper for license plate if required



Complete Installation
(light not included)