



# GUARDIAN FRONT BUMPER

PART NO. IB-TCS1-15

FITS:

2014-2021 Toyota Tundra



90-180 min



Cutting May  
Required



Drilling Not  
Required

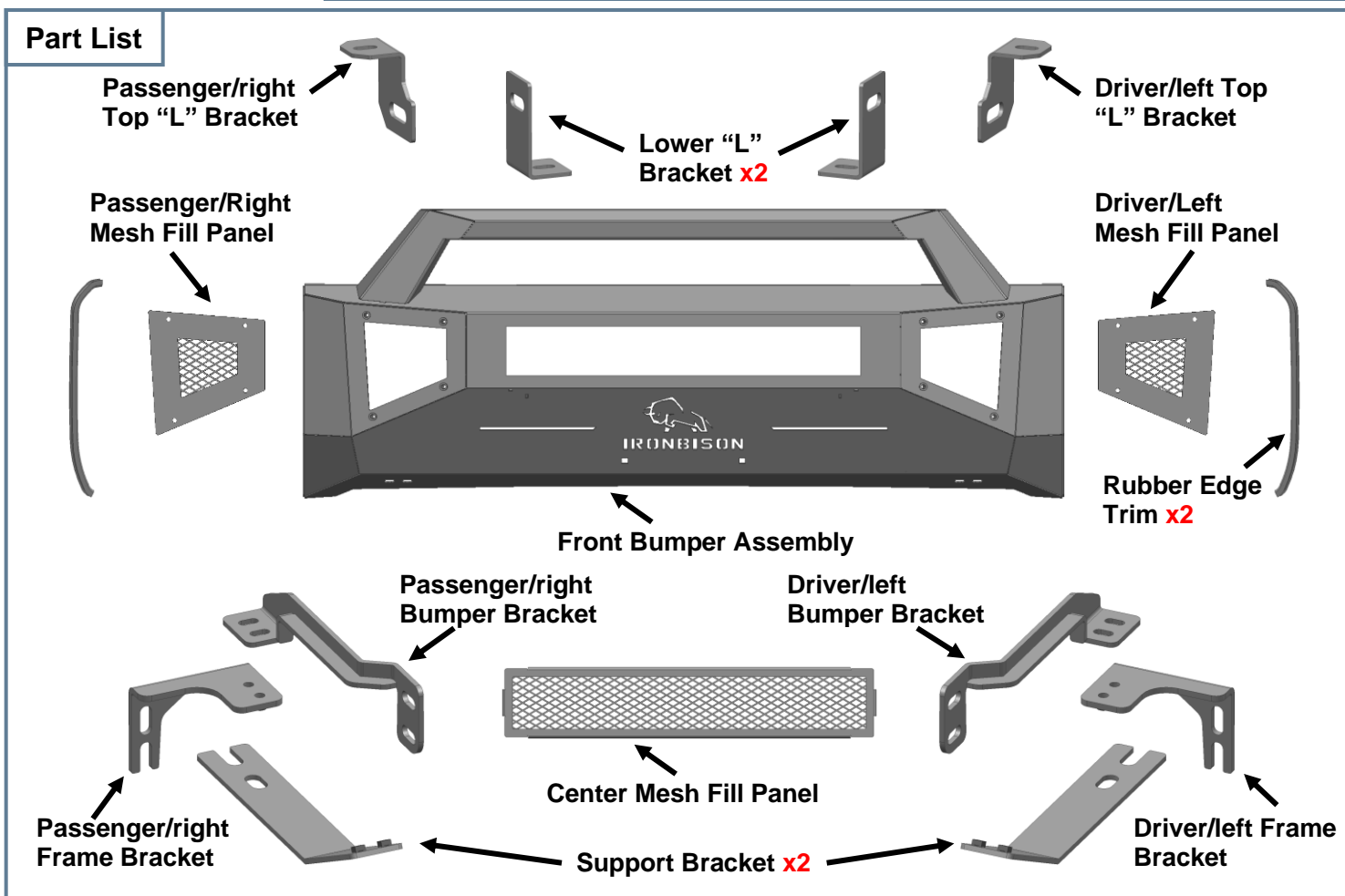
## Torque & Tools

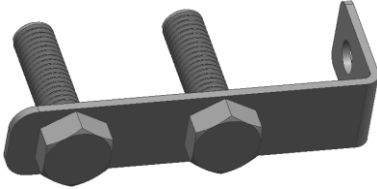



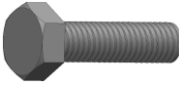


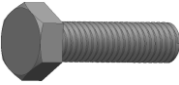
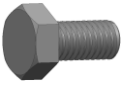
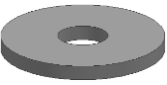


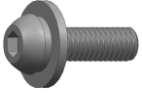


Fastener Size	Tightening Torque (ft-lbs)	Wrench Required		Allen Wrench Required	
■ 6mm	■ 7-8.5		<input type="checkbox"/> 10mm		■ 4mm
■ 8mm	■ 18-20		■ 13mm		<input type="checkbox"/> 5mm
■ 10mm	■ 35-40		■ 16mm		<input type="checkbox"/> 6mm
<input type="checkbox"/> 12mm	<input type="checkbox"/> 60-70		<input type="checkbox"/> 18mm		<input type="checkbox"/> 8mm

## BEFORE INSTALLATION

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

## Part List



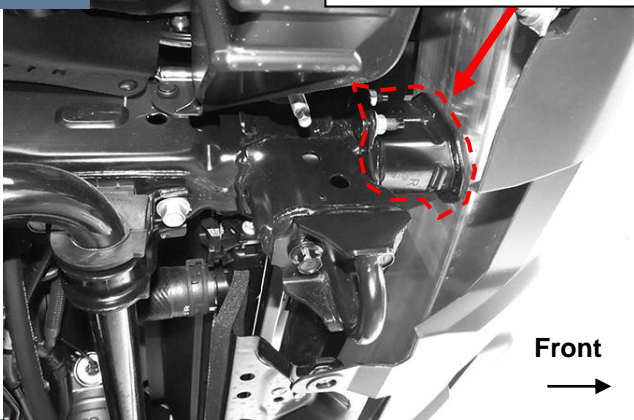
<p><b>Use to attach the Bumper to the Bumper Brackets:</b></p>	 <b>x2</b>  <b>x4</b>  <b>x4</b>  <b>x4</b> <p>10mm "L" Double Bolt Plate</p> <p>10mm x 24mm Flat Washer</p> <p>10mm Lock Washer</p> <p>10mm Hex Nut</p>
<p><b>Use to attach the Bumper Brackets to the Frame Brackets:</b></p>	 <b>x4</b>  <b>x4</b>  <b>x4</b> <p>8mm x 25mm Hex Bolt</p> <p>8mm Lock Washer</p> <p>8mm x 22mm Flat Washer</p>
<p><b>Use to attach Top &amp; Lower "L" Brackets, LED Light Bar or Center Mesh Fill Plates to the Bumper:</b></p>	 <b>x6</b>  <b>x2</b>  <b>x14</b>  <b>x8</b>  <b>x6</b> <p>8mm x 25mm Hex Bolt</p> <p>8mm x 16mm Hex Bolt</p> <p>8mm x 24mm Flat Washer</p> <p>8mm Lock Washer</p> <p>8mm Hex Nut</p>
<p><b>Use to attach Side Mesh Fill Plates &amp; Support Brackets to the Bumper:</b></p>	 <b>x12</b>  <b>x1</b> <p>6mm x 20mm Combo Bolt</p> <p>4mm Allen Wrench</p>
<p><b>Attach to the Bumper for License Plate Reinstall:</b></p>	 <b>x2</b> <p>Square Plastic Plug</p>

## STEP 1

Remove the license plate and bracket from the bumper cover. Start installation at the front of the vehicle. Top Frame Brackets must be installed from below front bumper, **(Fig 1)**.

FIG 1

Original Bumper bracket



**(Fig 1)** Passenger side pictured from below

## STEP 2

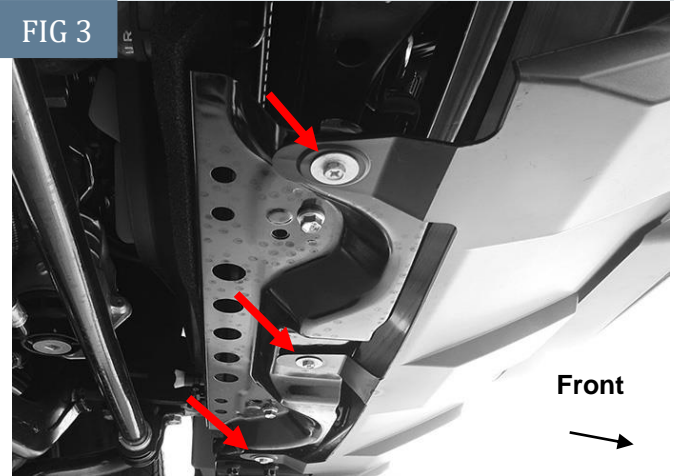
Locate the passenger/right side original bumper bracket attached to the end of the frame, visible from below the bumper above the tow hook, **(Fig 2)**. Remove the hardware attaching the bumper cover to the cross member to access the end of the frame and bracket, **(Fig 3)**.

FIG 2



**(Fig 2)** Locate the (3) outer hex nuts attaching the original bumper bracket to the frame. Reuse the **center and top** hex nut to attach the Top Frame Bracket to the front of the bumper bracket

FIG 3

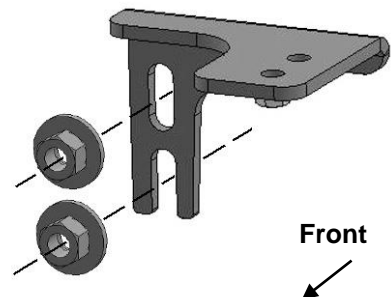


**(Fig 3)** If necessary, temporarily remove bumper cover hardware to access original bumper bracket (passenger/right side pictured from below)

## STEP 3

Select the Passenger/Right Frame Mounting Bracket, **(Fig 4)**. Remove the top and center factory hex nuts from the outside of the original bumper bracket, attaching the bumper bracket to the end of the frame, **(Fig 2)**. **Note:** Slide the Frame Bracket over the top of the original bumper bracket, down and over the (2) threaded studs. Carefully pull the bottom of the bumper cover outward and slide the Bracket up and in position. Reuse the (2) factory hex nuts to attach the Passenger/Right Frame Bracket to the bumper bracket. Do not tighten the hardware at this time.

FIG 4

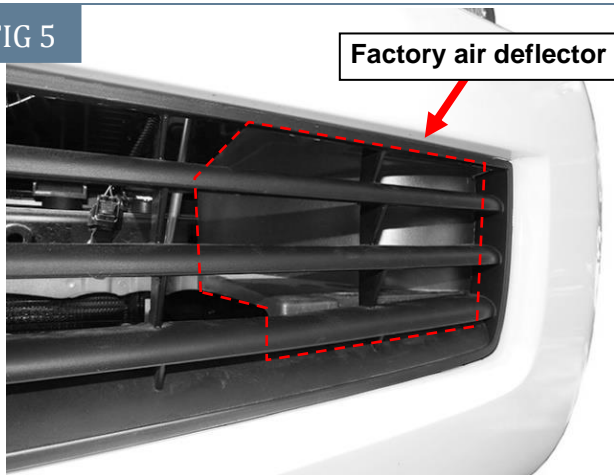


**(Fig 4)** Reuse the (2) factory hex nuts to attach the passenger/right Top Bracket to the factory bumper bracket

## STEP 4

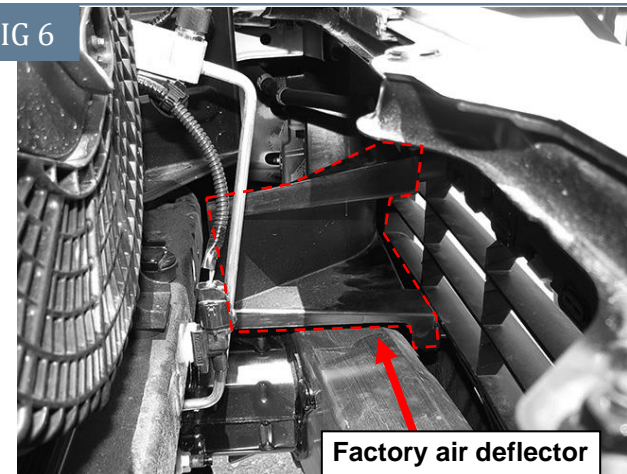
Repeat **Steps 2—3** to install the Driver/Left Frame Mounting Bracket. **IMPORTANT:** Installation will require removal or cutting of plastic air deflector, if equipped, attached to the back of the lower grille, (**Figs 5 & 6**). **NOTE:** Depending on year and model, it may be necessary or easier to remove bumper cover to access and remove the air deflector from back of the grille.

FIG 5



(Fig 5) Models equipped with driver/left side air deflector, cut or remove air deflector to clear the Top Brackets

FIG 6



(Fig 6) Driver/left side air deflector pictured from above. Note: Not included on all models

## STEP 5

Next, remove the passenger/right tow hook if equipped, (**Figs 7 & 8**). Select the Passenger/Right Support Bracket, (**Fig 9**).

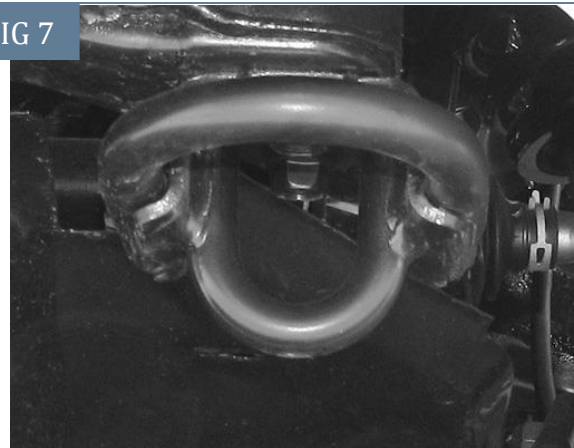
### Vehicles with small tow hook:

Insert the (2) factory tow hook bolts back through the tow hook, the Support Bracket and up into the frame, (**Fig 10**). Do not tighten hardware.

### Vehicles with large tow hooks:

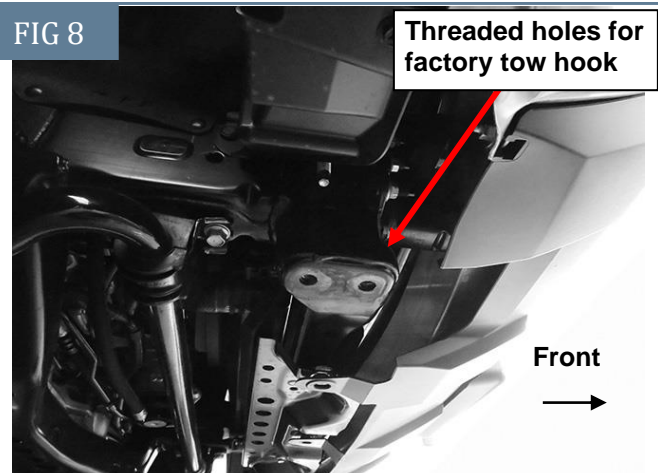
Reuse the tow hook bolts to attach the Passenger/Right Support Bracket directly to the bottom of the frame. **NOTE:** Large tow hook cannot be reinstalled, (**Fig 7**). Do not tighten hardware.

FIG 7



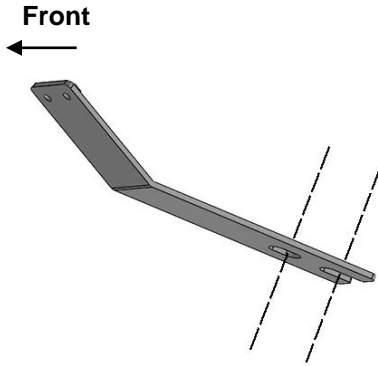
(Fig 7) Temporarily remove tow hooks. Important, the heavy duty factory tow hooks (pictured) cannot be reinstalled.

FIG 8



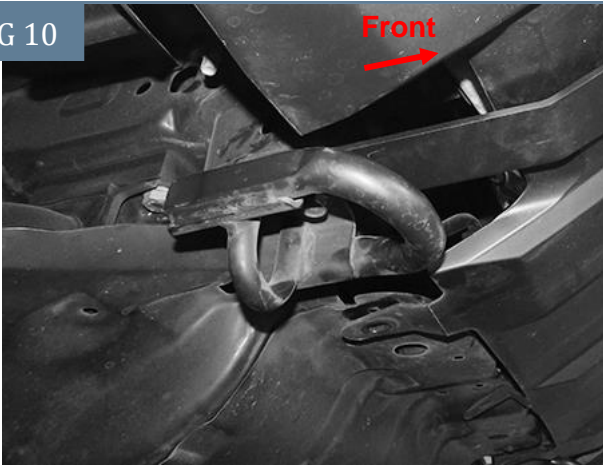
(Fig 8) Passenger/right side pictured from below

FIG 9



(Fig 9) Passenger/Right Support Bracket

FIG 10



(Fig 10) Reuse factory hex bolts to attach Support Bracket to bottom of frame (passenger/right side pictured with small tow hook)

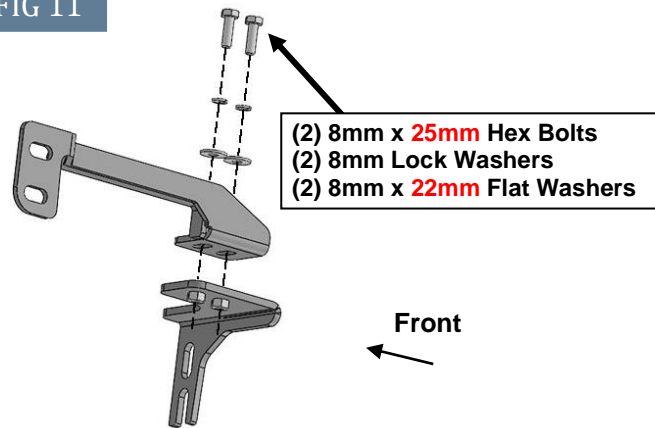
## STEP 6

Repeat **Step 5** to install the Driver/Left Support Bracket. Do not tighten hardware.

## STEP 7

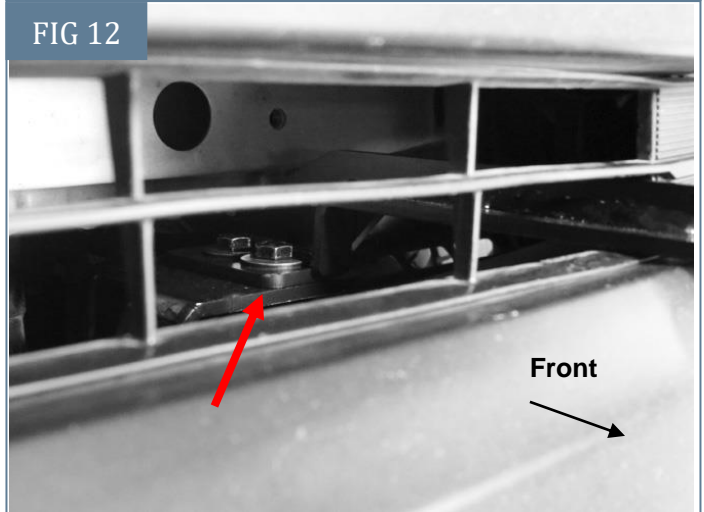
Select the Passenger/Right Bumper Bracket, (**Fig 11**). Slide the Bumper Bracket in through the opening in the bumper, (**Fig 12**). Line up the (2) holes in the Bracket with the previously installed Frame Bracket. Attach the Bumper Bracket to the top of the Frame Bracket with (2) 8mm x **25mm** Hex Bolts, (2) 8mm Lock Washers and (2) 8mm x **22mm** Flat Washers, (**Figs 11 & 12**). Do not tighten hardware.

FIG 11



(Fig 11) Insert Passenger/Right Bumper Bracket through opening in bumper

FIG 12



(Fig 12) Passenger/right side Bumper Bracket installed

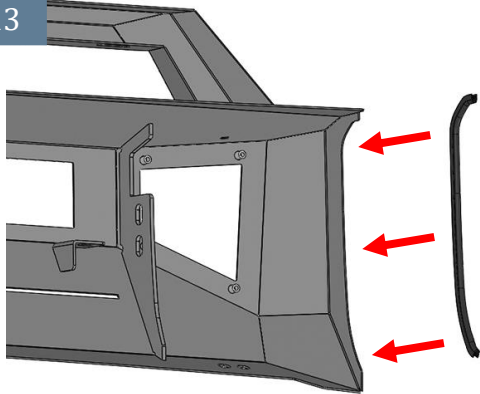
## STEP 8

Repeat **Steps 6 & 7** to install the Driver/Left Bumper Bracket.

## STEP 9

Select the (2) Rubber Edge Trim. Attach the Rubber Edge Trim to each side of the Bumper to protect the finish of the factory bumper, (**Fig 13**).

FIG 13



(Fig 13) Push Edge Trim onto both ends of Bumper

## STEP 10

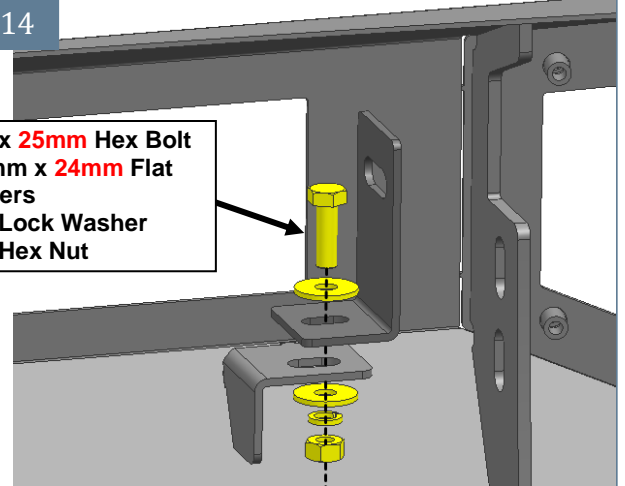
Determine if accessory lights, (not included), or Mesh Fill Panels will be installed at this time.  
**IMPORTANT:** It may be easier to install Center Fill Panels and/or lights before installing Bumper.

**Center Mesh Fill Panel Installation (do not install Mesh Fill Panel if installing light):**

- Select (1) Lower "L" Bracket. Attach the Bracket to the Passenger/Right side of the back of the Bumper with (1) 8mm x **25mm** Hex Bolt, (2) 8mm x **24mm** Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, (**Fig 14**).
- Repeat previous **Step** to attach (1) Lower "L" Bracket to the Driver/Left side.
- Select the Center Mesh Fill Panel. Attach the Panel to the (2) Lower "L" Brackets with (2) 8mm x **25mm** Hex Bolts, (4) 8mm x **24mm** Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Huts, (**Fig 15**).

FIG 14

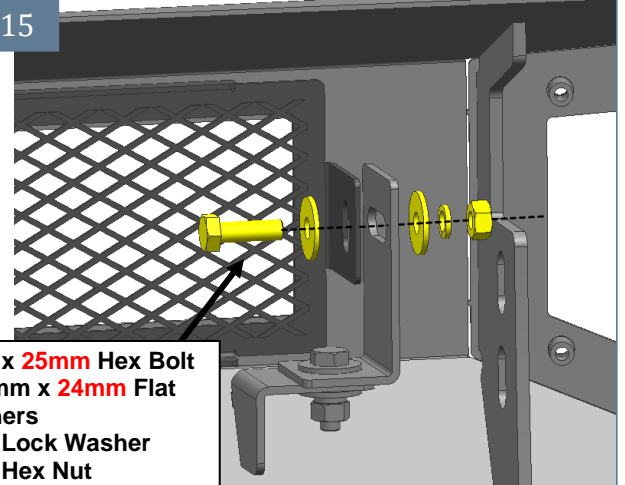
8mm x **25mm** Hex Bolt  
(2) 8mm x **24mm** Flat Washers  
8mm Lock Washer  
8mm Hex Nut



(Fig 14) Attach (1) Lower "L" Bracket to the back of the Bumper

FIG 15

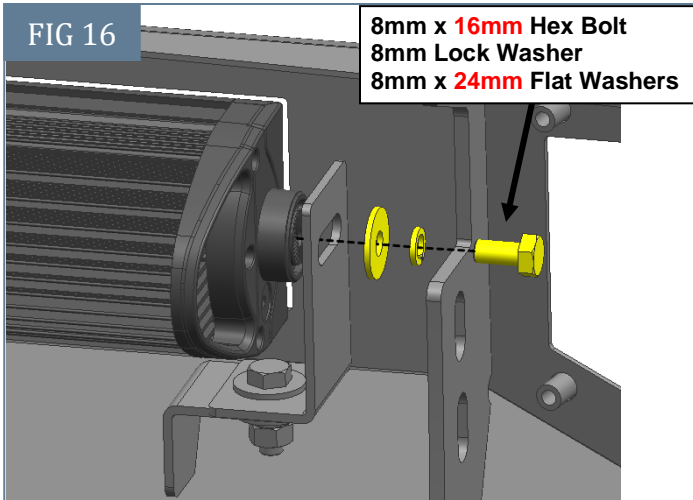
8mm x **25mm** Hex Bolt  
(2) 8mm x **24mm** Flat Washers  
8mm Lock Washer  
8mm Hex Nut



(Fig 15) Attach the Center Mesh Panel to the (2) Lower "L" Brackets

**Inner 20" LED light bar installation (light bar not included, do not install Mesh Panel with light).**

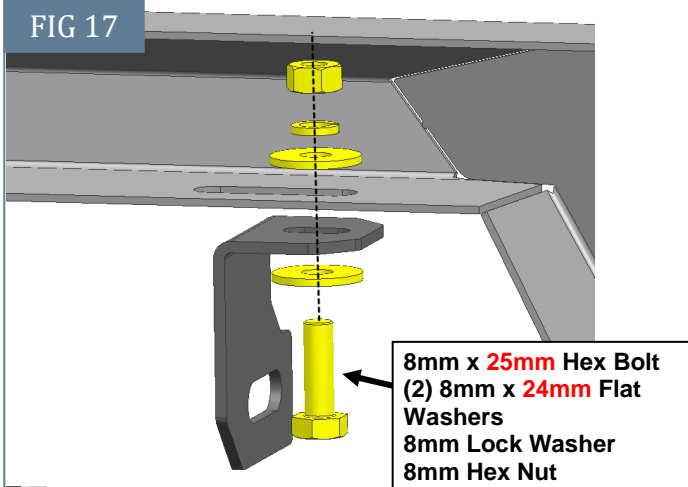
- Select (1) Lower "L" Bracket, (**Fig 14**).
- Attach the "L" Bracket to the slot on the back of the driver/left side of the Bumper with (1) 8mm x **25mm** Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, (**Fig 14**). Repeat this Step to attach the Lower "L" Bracket to the passenger/right side of the Bumper.
- Attach the 20" light bar to the "L" Brackets with the hardware included with the light or the supplied (2) 8mm x **16mm** Hex Bolts, (2) 8mm Lock Washers and (2) 8mm x **24mm** Flat Washers, (**Fig 16**). Adjust and fully tighten light and "L" bracket hardware only at this time.



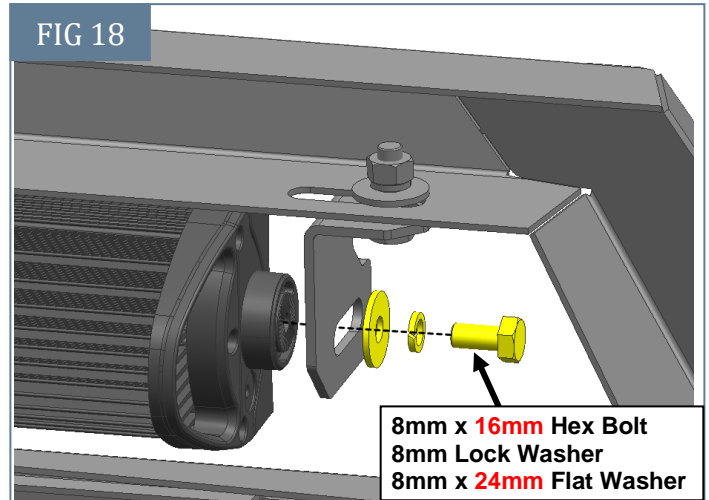
(Fig 16) Attach the 20" LED Light bar to the (2) Lower "L" Brackets

**Top mounted 20" LED light bar (not included):**

- Select the Passenger/Right Top "L" Bracket. Attach the Bracket to the passenger/Right side of the bottom of the hoop with (1) 8mm x **25mm** Hex Bolt, (2) 8mm x **24mm** Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Fig 17)**.
- Repeat the previous **Step** to attach the Driver/Left Top "L" Bracket to the hoop.
- Attach a light bar to the (2) "L" Brackets with (2) 8mm x **16mm** Hex Bolts, (2) 8mm Lock Washers and (2) 8mm x **24mm** Flat Washers, **(Fig 18)**.
- Adjust and fully tighten light and Bracket hardware only. Follow light manufacturer's instructions for wiring.



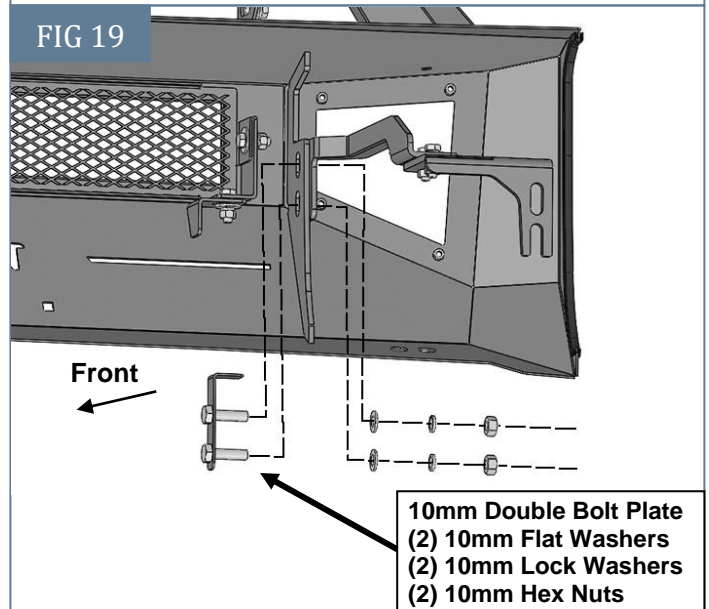
(Fig 17) Attach the Passenger/Right Top "L" Brackets to the bottom of the Hoop



(Fig 18) Attach the Light Bar to Top "L" Brackets

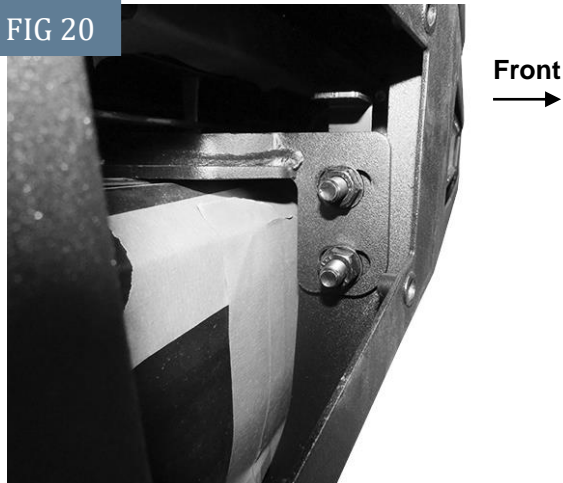
## STEP 11

With assistance, line up the slots in the mounting plate on the back of the Bumper to the slots in the Bumper Bracket. Using (1) 10mm Bolt Plate, insert the threads through the slots. Secure the Bumper to the bolt Plate with (2) 10mm Flat Washers, (2) 10mm Lock Washers and (2) 10mm Hex Nuts, **(Figs 19 & 20)**. Do not tighten hardware.



(Fig 19) Attach the Bumper to the Bumper Bracket

FIG 20



(Fig 20) Bumper attached to the Passenger/Right Bumper Bracket

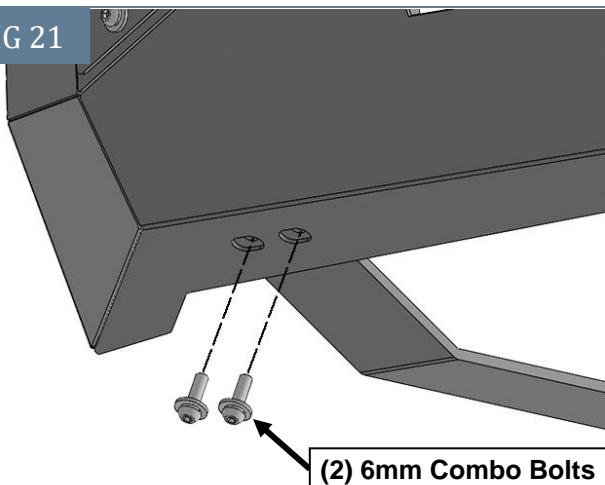
## STEP 12

Repeat previous **Step** to attach (1) 10mm Bolt Plate to the Driver/Left side.

## STEP 13

Attach the Bumper to the (2) Support Brackets with (4) 6mm Combo Bolts, (Fig 21). Do not tighten hardware.

FIG 21



(Fig 21) Attach the bottom of the Bumper to the Support Brackets

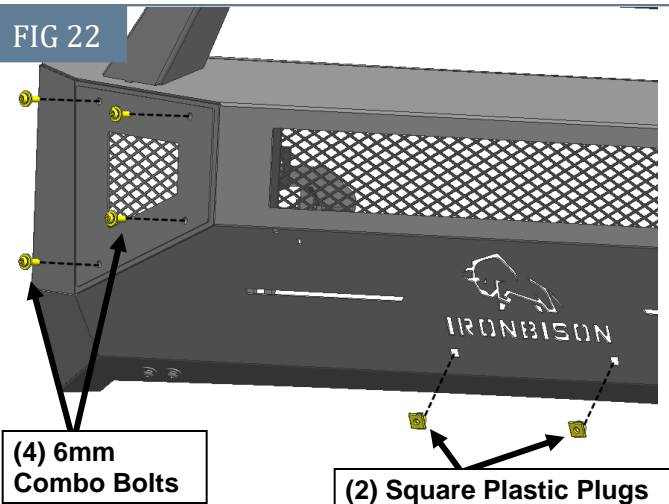
## STEP 14

Level and adjust the Bumper. Tighten all hardware.

## STEP 15

Select the Passenger/Right Mesh Fill Panel. Attach the Panel to the front Passenger/Right side of the Bumper with (4) 6mm Combo Bolts, (Fig 22). Repeat this **Step** to attach the Driver/Left Mesh Fill Panel.

FIG 22



(Fig 22) Attach the Passenger/Right Mesh Panel and Square Plastic Plugs to the front of the Bumper

## STEP 16

Insert Square Plastic Plugs into the front of the Bumper, (Fig 22). Reuse the factory hardware to attach the license plate to the Plastic Plugs.

## STEP 17

Do periodic inspections to the installation to make sure that all hardware is secure and tight.