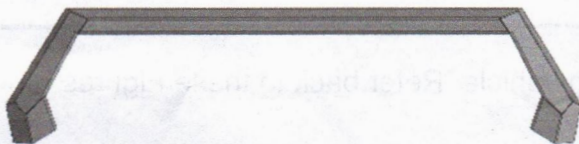


INSTALLATION INSTRUCTIONS

PARTS LIST: TT68344; TT68345

Qty	Item Description	Qty	Item Description
1	Front Bumper Assembly	6	10mm Lock Washers
1	Bull Nose	4	8-1.25mm x 25mm Hex Bolts
1	Center Mesh Fill Panel	4	8-1.25mm x 20mm Hex Bolts
2	Plastic Plugs for License Plate Mount	2	8-1.25mm x 16mm Hex Bolts
2	Inner "L" Brackets for mesh or light	4	8mm Nylon Lock Nut
10	2.75mm x 1mm x200mm Nylon Wire Ties	4	8mm Hex Nuts
1	Edge Trim	8	8mm x 24mm x 2mm Flat Washers
1	Driver/Left Mesh Plate	8	8mm x 16mm x 1.6mm Flat Washers
1	Passenger/Right Mesh Plate	4	8mm Lock Washers
1	Driver/Left Mounting Bracket	2	6mm Button Head Combo Bolts (18mm OD Flat Washers)
1	Passenger/Right Mounting Bracket	8	6mm Button Head Combo Bolts
6	10-1.5mm x 30mm Hex Bolts	2	6mm Flange Nuts
6	10mm x 27mm x 3mm Flat Washers	1	Hex Wrench



Bull Nose



Front Bumper Assembly



Passenger/Right
Mounting Bracket

Driver/Left
Mounting Bracket



Passenger/Right
Mesh Plate



Driver/Left
Mesh Plate



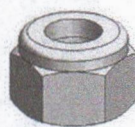
Hex Bolt



Lock
Washer



Flat
Washer



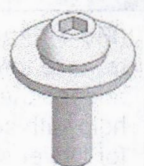
M8 Nylon
Lock Nut



Hex
Wrench



Button
Head Bolt



Button Head
Combo Bolt



Edge Trim



Rubber Plug



Plastic Plug

TOOLS REQUIRED



Ratchet



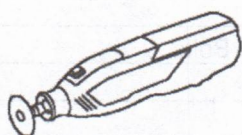
Socket



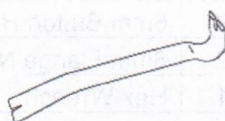
Extensions



Wrench



Cutting Tool



Pry Tool

1

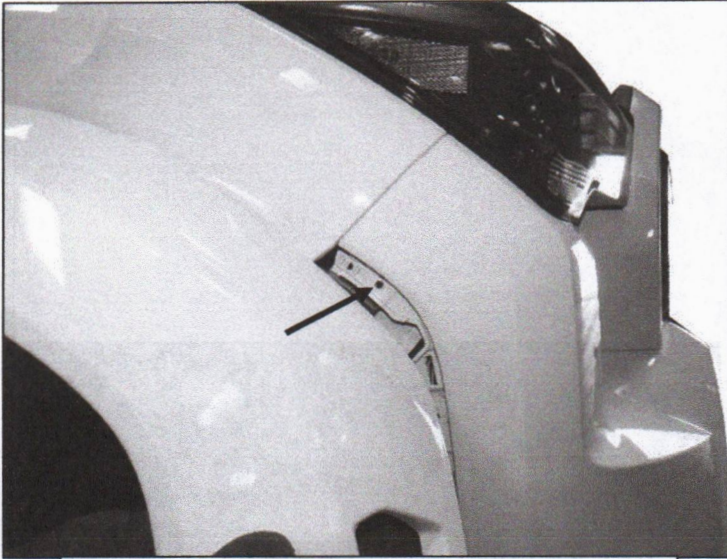
Follow [Fig 1-13](#) to carefully remove Front Clip from vehicle. Refer back to these Figures for reinstalling the Front Clip.



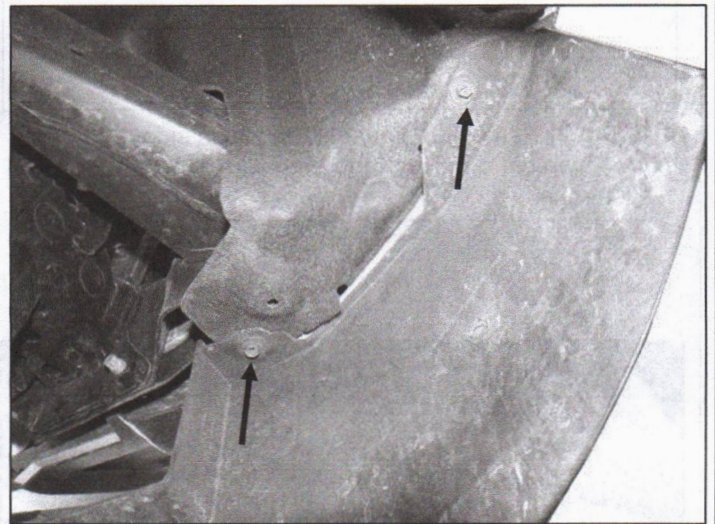
(Fig 1) Starting on Passenger Side wheel well, remove three screws and two plastic clips to release the liner from the front clip. Pry tool may help with separating liner from front clip. Repeat for Driver side. Be sure to retain all hardware.



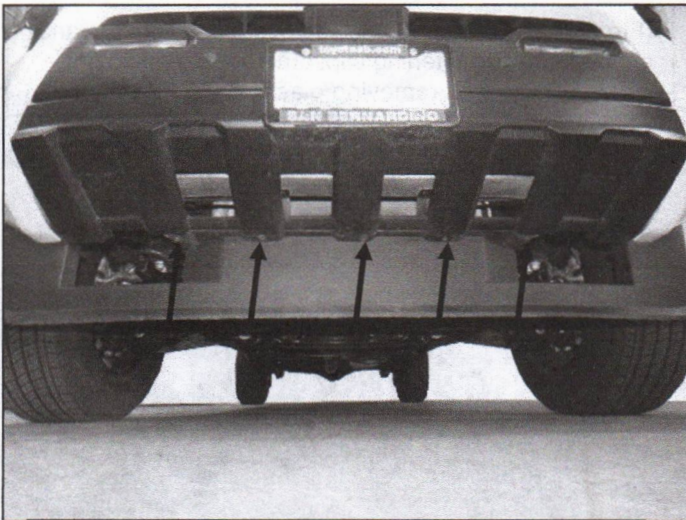
(Fig 2) With a pry tool, carefully pull the fender flare outwards to release it from the side. Repeat on Driver side.



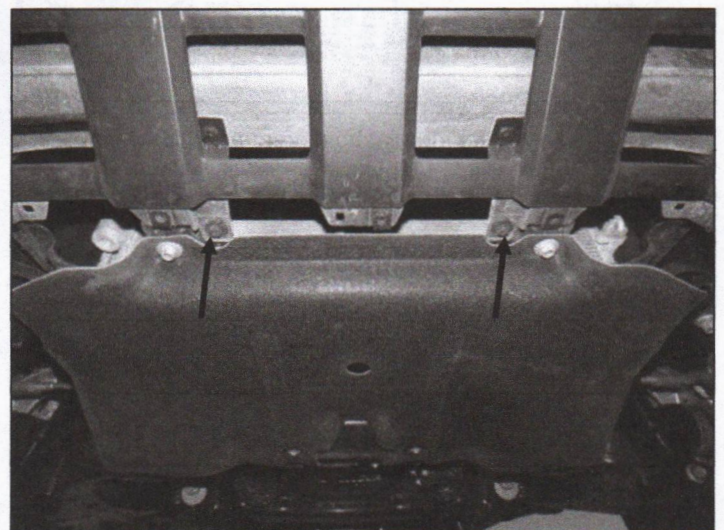
(Fig 3) Remove screw attached to side of front clip behind fender flare.



(Fig 4) Remove air dam from front clip by removing several screws from underneath on each side.



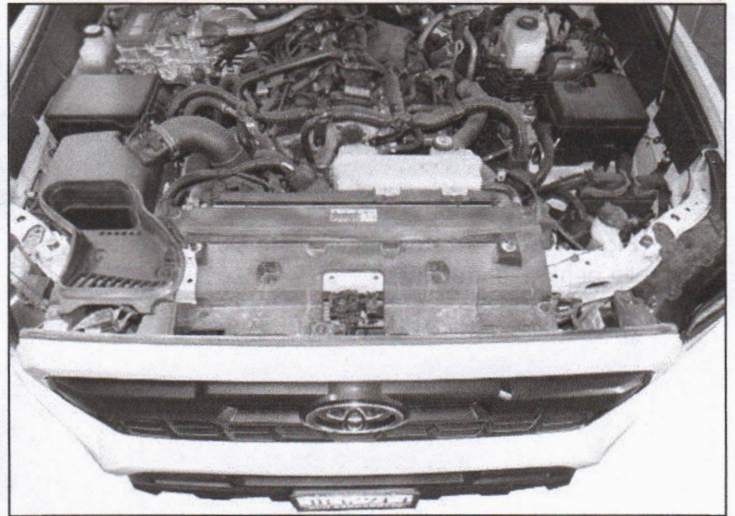
(Fig 5) Continue removing air dam by removing several screws from underneath at the center. Keep hardware in safe storage.



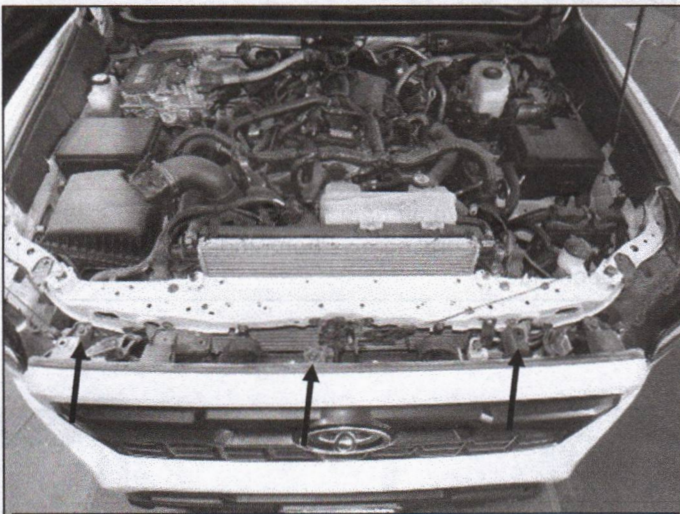
(Fig 6) Remove (2) factory bolts to loosen bottom section of front clip. Keep hardware in safe storage.



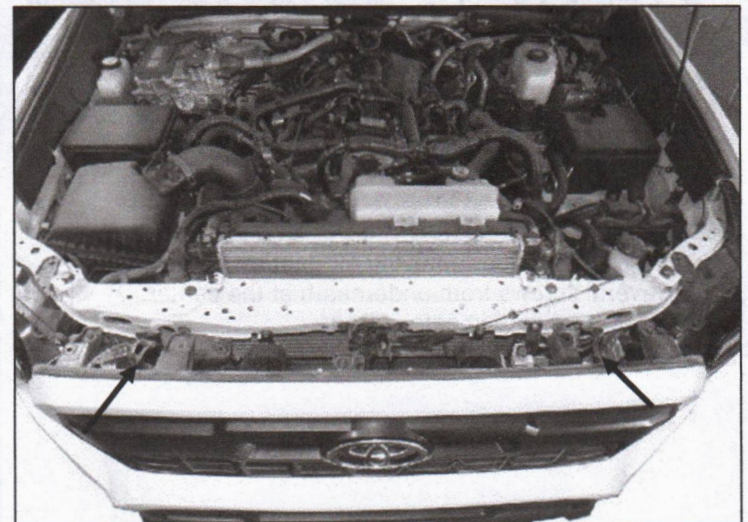
(Fig 7) Remove factory bolt to loosen side bottom section of front clip. Keep hardware in safe storage.



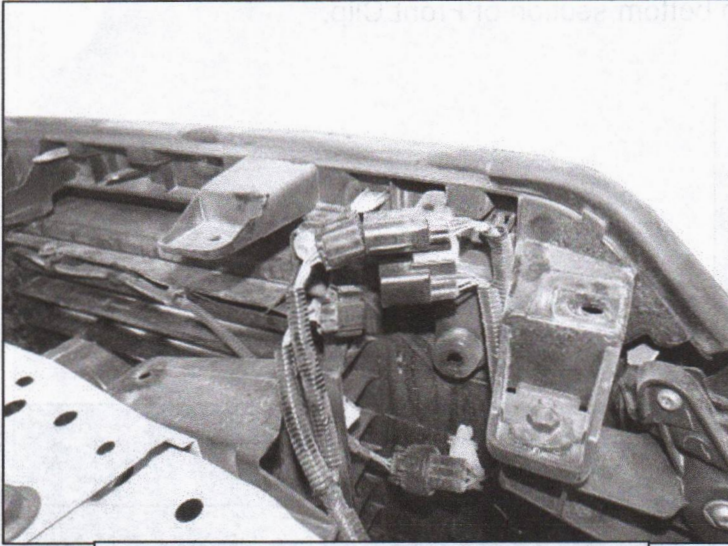
(Fig 8) Open the hood and remove plastic covers and air intake by unfastening clips and bolts. Plastic pry tool may help with removing plastic clips.



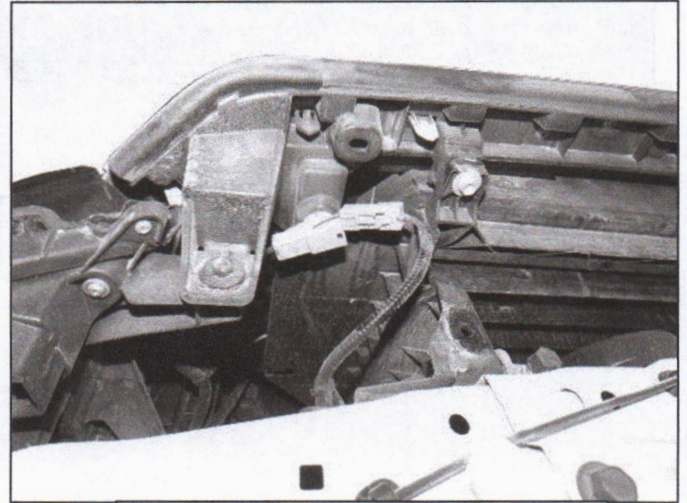
(Fig 9) After removing plastic covers and air intake, remove three bolts holding the upper clip.



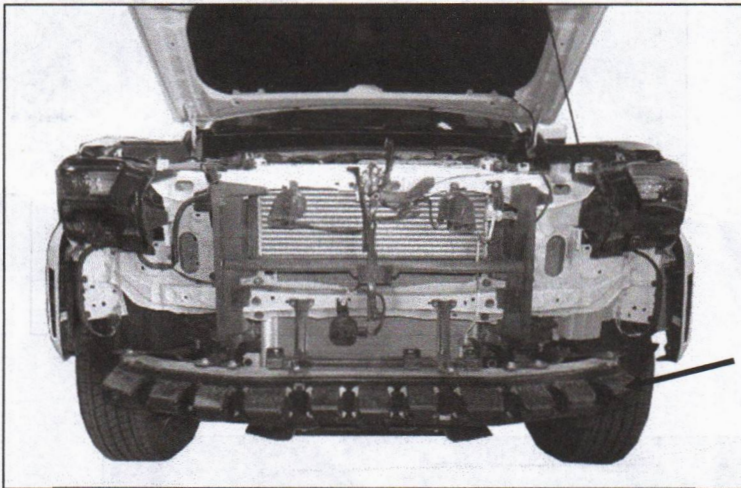
(Fig 10) After removing plastic covers, locate wire harnesses for shutter and camera on each side.



(Fig 11) Unplug passenger side wire harnesses shown

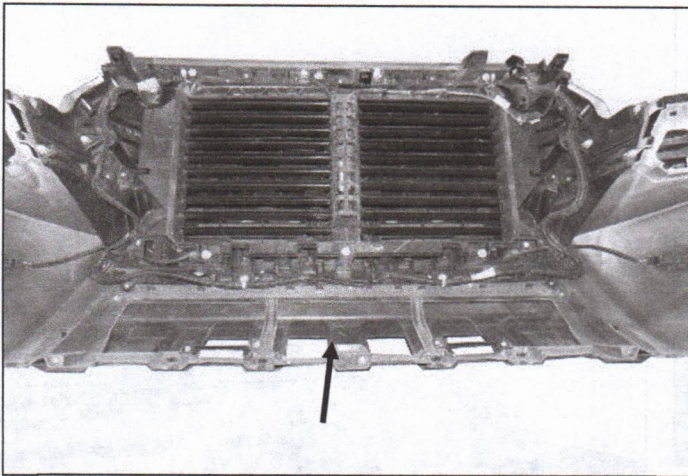


(Fig 12) Unplug driver side wire harnesses shown

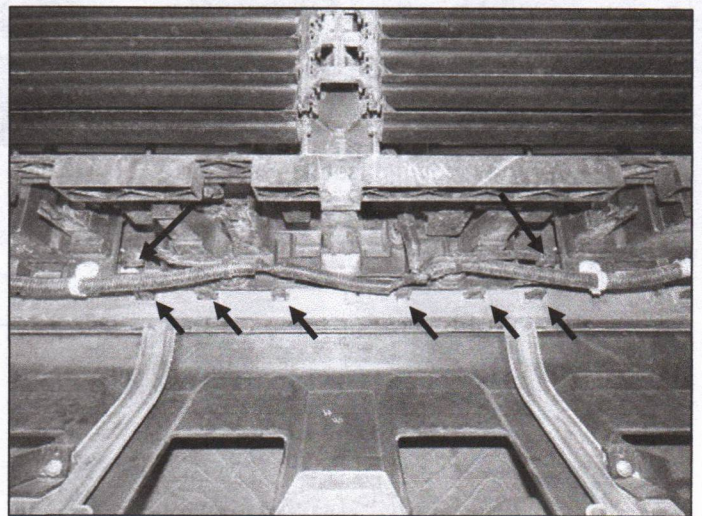


(Fig 13) Carefully release and pull the front clip off the vehicle and place it on a flat secure surface. Remove the plastic piece from the crash bar and place it aside.

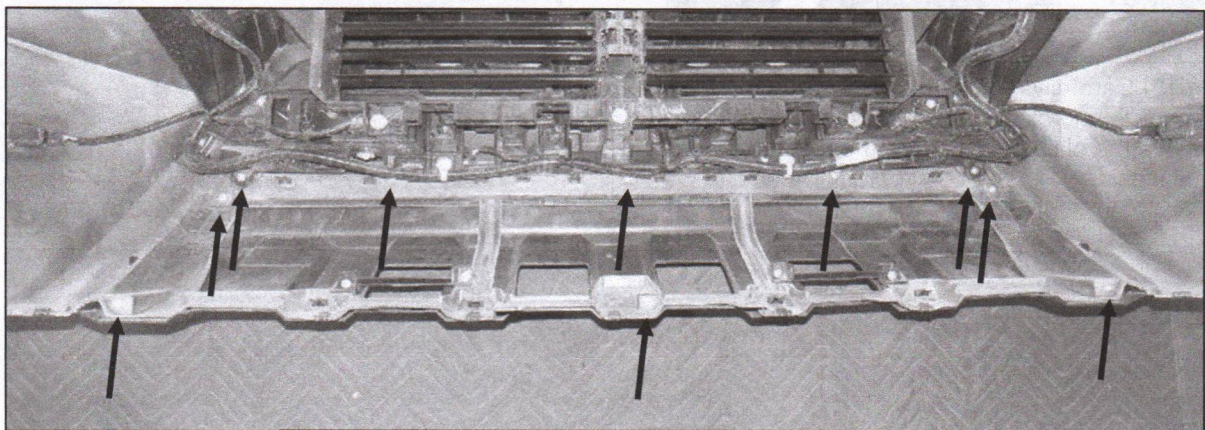
Follow [Fig 14-21](#) to set guide lines and trim bottom section of Front Clip.



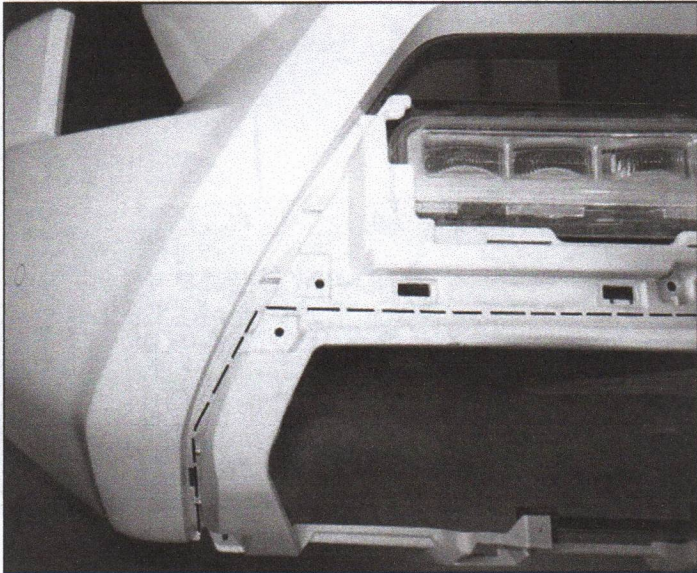
(Fig 14) On back side of the Front Clip, locate and remove front bumper plastic.



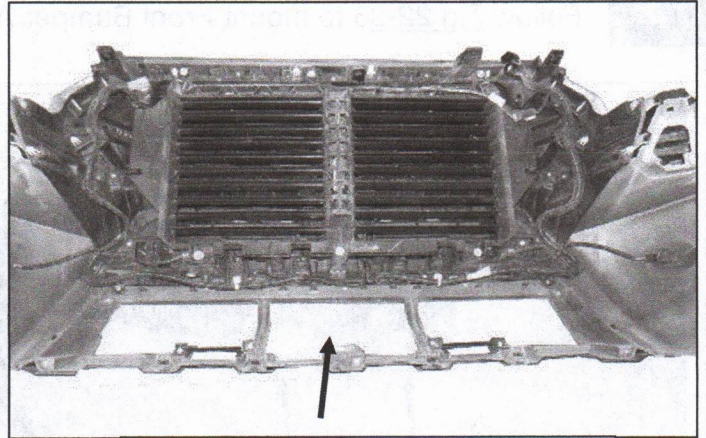
(Fig 15) If parking sensors are equipped, temporarily unplug them. Unclip the panel using a pry tool by pushing on small tabs for each retainer along the panel.



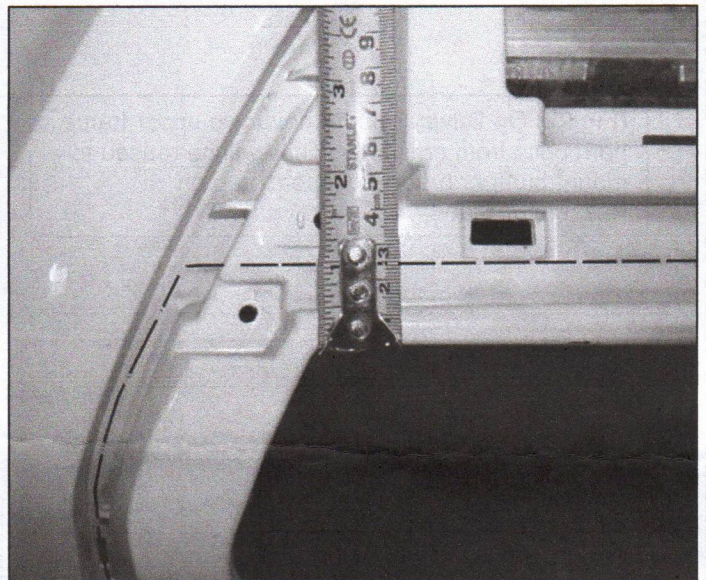
(Fig 16) Locate and remove 10 small screws holding the panels.



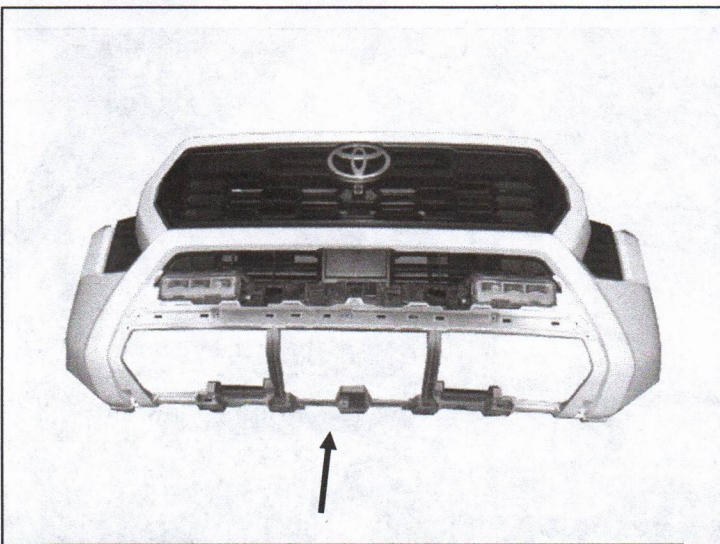
(Fig 18) Trace and mark along inner profile to ensure accurate cutting lines. The upper edge line is measured at 1" above the bottom profile line.



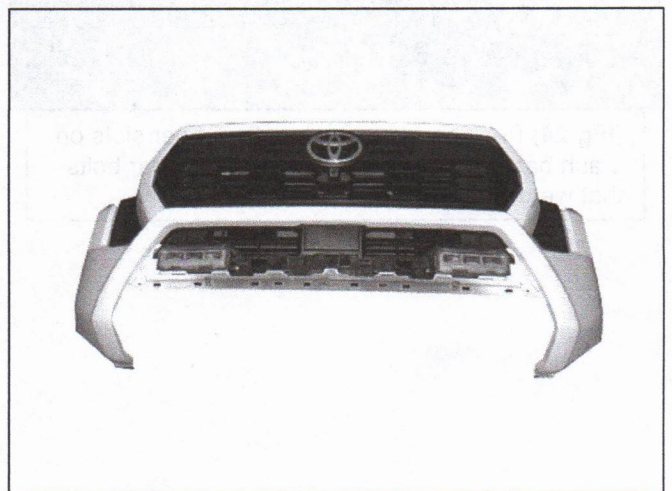
(Fig 17) Front bumper plastic removed.



(Fig 19) The top edge cutting line should be 1" away from the bottom edge profile.



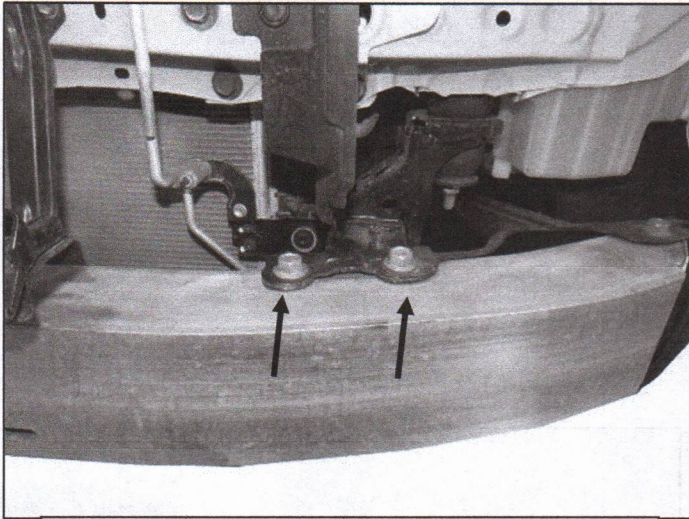
(Fig 20) After marking cut line, use trimming tool and cut along the line starting at one of the ends. Be sure to move any wiring clear of the cutting area.



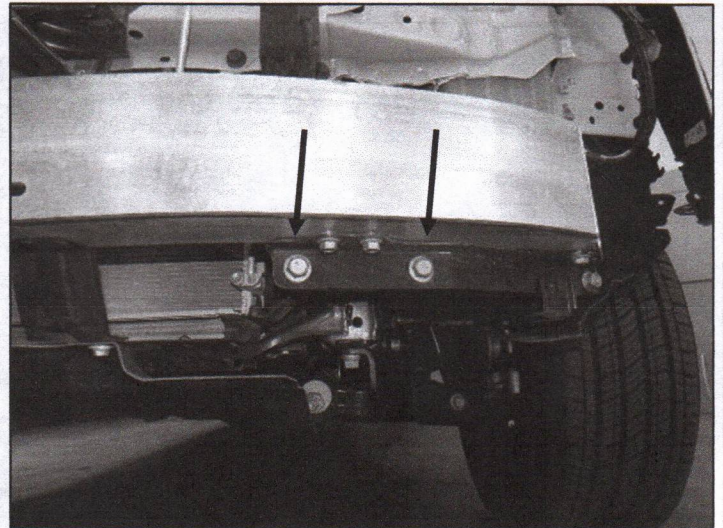
(Fig 21) Front clip after trimming. Reinstall the upper panel equipped with parking sensors.

3

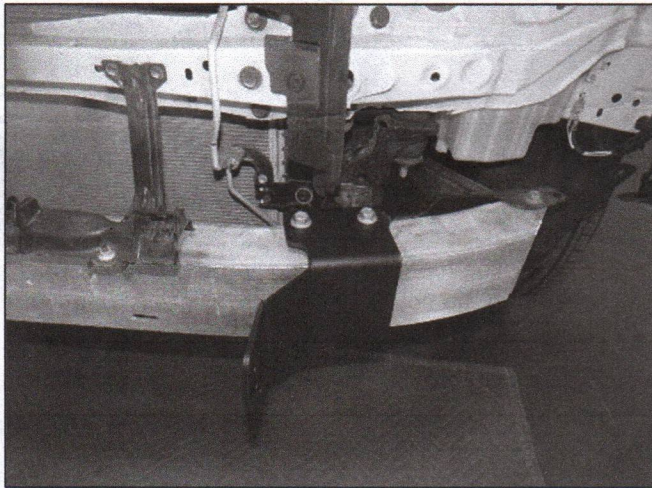
Follow [Fig 22-36](#) to mount Front Bumper Assembly and complete installation.



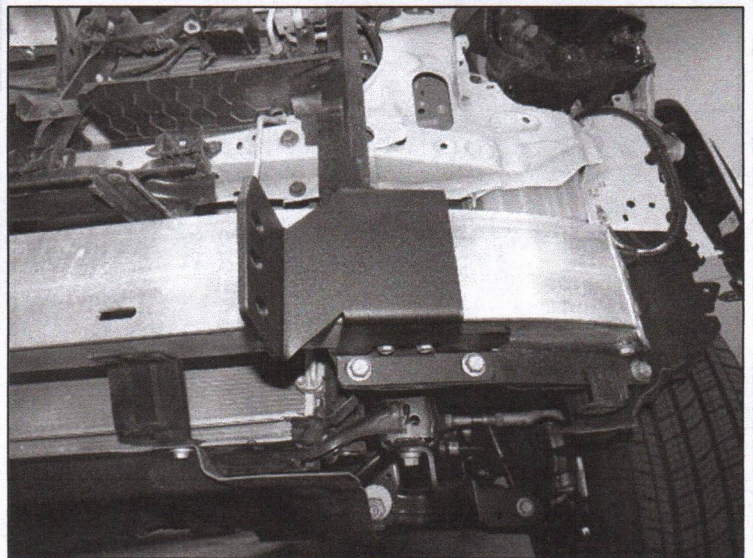
(Fig 22) On Driver Side, remove two upper frame horn bolts from crash bar. They will be reused to mount bumper bracket. Repeat step on Passenger Side.



(Fig 23) Remove two lower frame horn bolts from crash bar. They will be reused to mount bumper bracket.



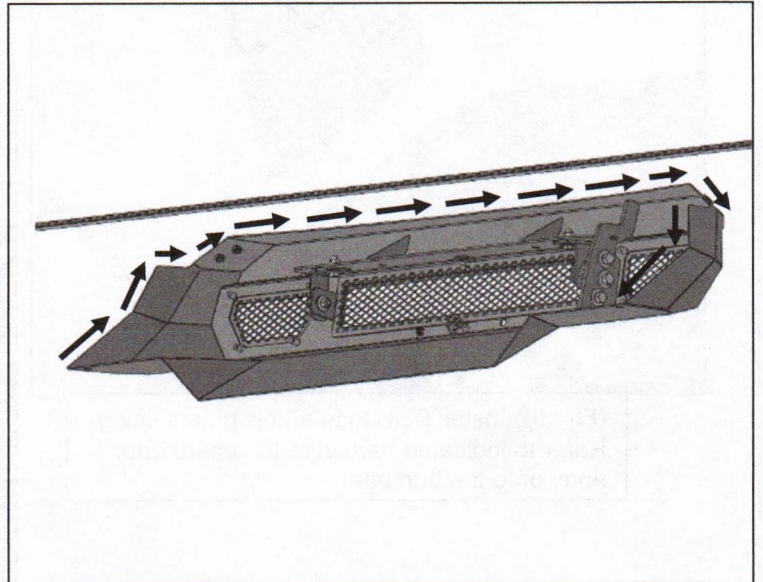
(Fig 24) Position mounting bracket upper slots on crash bar and fasten using upper crash bar bolts that were just removed.



(Fig 25) Position mounting bracket lower slots on crash bar and fasten using lower crash bar bolts that were just removed. Repeat steps to mount bracket on Passenger Side. Be sure to only work on one side at a time to avoid risk of damage.



(Fig 26) Test fit the bumper and adjust any brackets for proper position before reinstalling front clip onto vehicle. The brackets will be difficult to adjust with the Front Clip on. When ready, refasten reinstall the Front Clip and all upper, side, and bottom screws and clips that were previously removed.

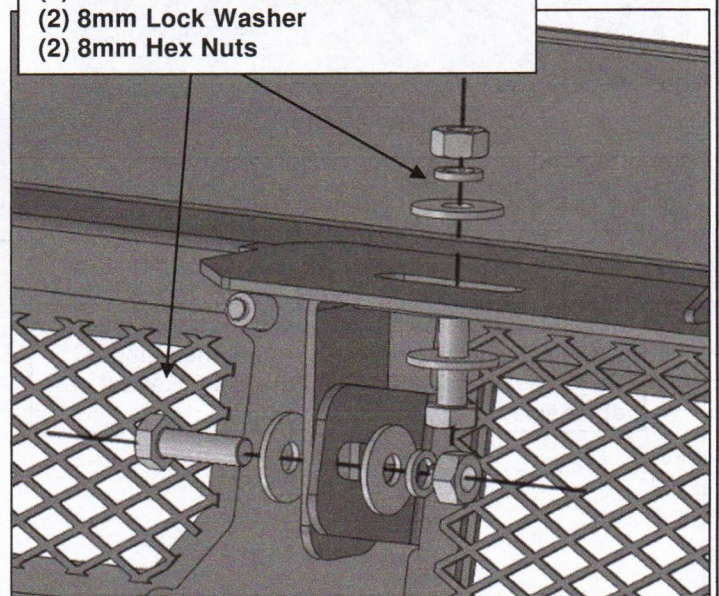


(Fig 27) Apply Edge Trim by clamping from the bottom side, continuing along the top, and ending at the opposite side end. This will protect the Factory Plastic against thin edges. Cut any excess trim with a metal cutter.



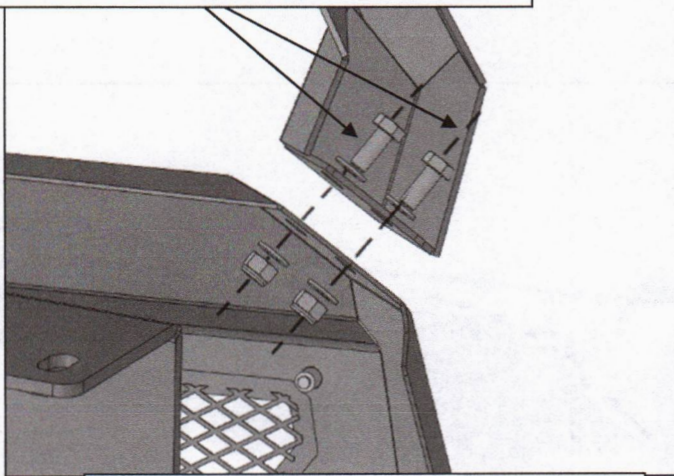
(Fig 28) Install LED light bar at center cut out at this time if using. Use LED Light Bar specific hardware to mount to bracket. Follow LED Light Bar's instructions to set up wiring to vehicle.

- (2) 8-1.25mm x 25mm Hex Bolts
- (4) 8mm x 24mm x 2mm Flat Washers
- (2) 8mm Lock Washer
- (2) 8mm Hex Nuts

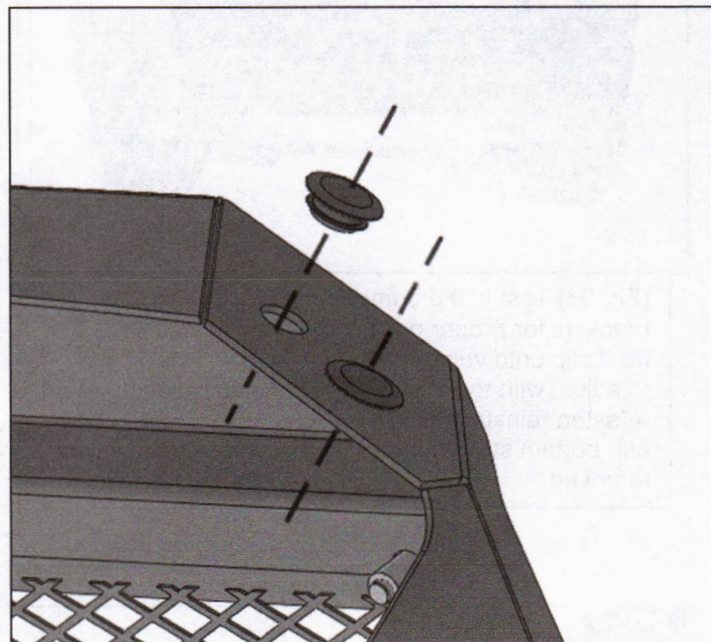


(Fig 29) If using Center Mesh Plate, attach Center Mesh Plate using indicated hardware.

- (2) 8-1.25mm x 20mm Hex Bolts
- (4) 8mm x 16mm x 1.6mm Flat Washers
- (2) 8mm Nylon Lock Nuts

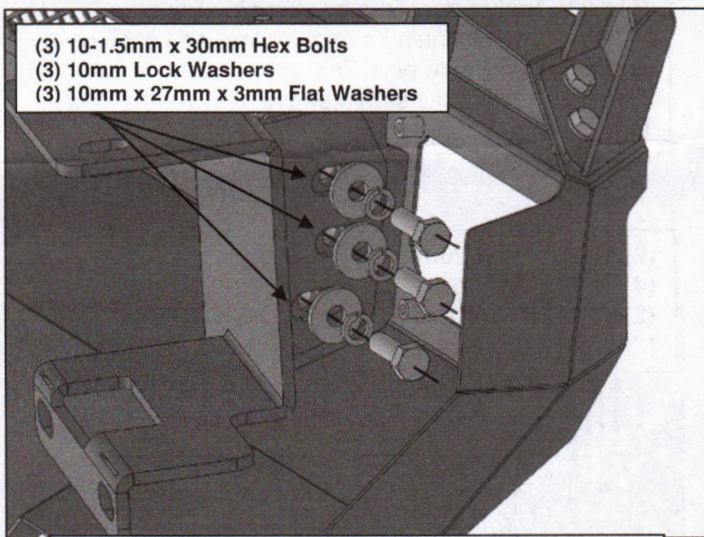


(Fig 30) Install Bull Nose at this time if using. Refer to indicated hardware to secure both ends onto the bumper.

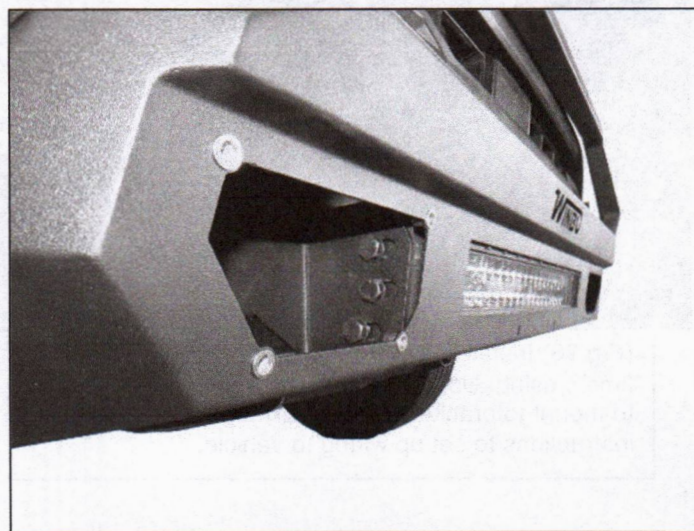


(Fig 31) Insert Rubber Plugs into holes if Bull Nose will not be installed.

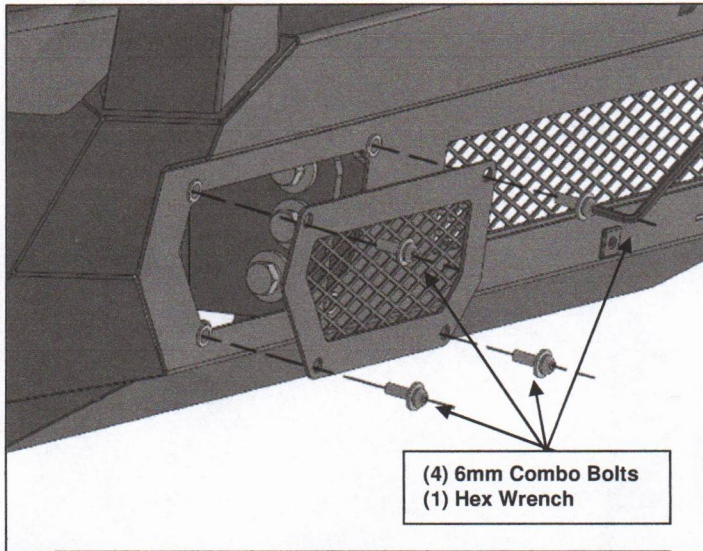
- (3) 10-1.5mm x 30mm Hex Bolts
- (3) 10mm Lock Washers
- (3) 10mm x 27mm x 3mm Flat Washers



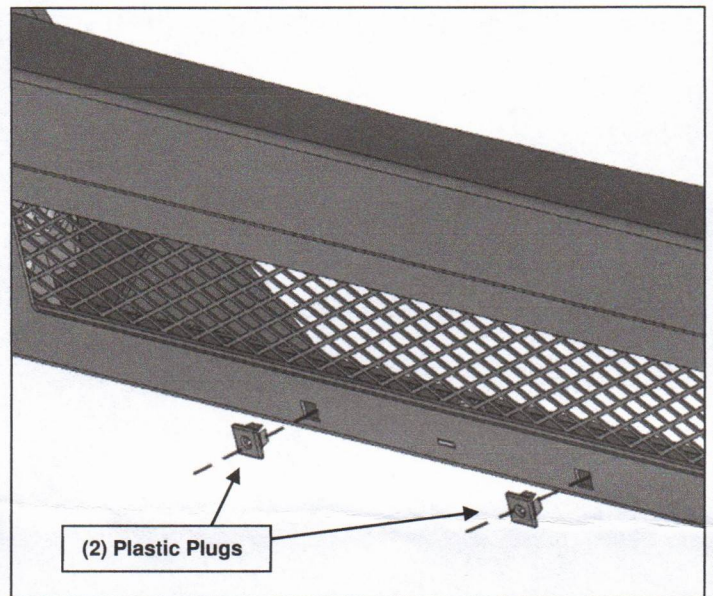
(Fig 32) With assistance, lift and position bumper onto front clip, lining up bumper slots to mounting bracket slots. Hold the bumper in position, then insert indicated hardware to mount the bumper. Do not tighten completely at this time. Repeat on other side.



(Fig 33) When the bumper is positioned properly, tighten the hardware completely from the opening on outer side.



(Fig 34) Install mesh plates using indicated hardware and hex wrench.



(Fig 35) Insert Plastic Plugs into square slots in center of bumper to install License Plate



(Fig 36) Installation is complete. Do periodic inspections to the installation to make sure that all hardware is secure and tight.