PT228-16220 Activity Mount
PT228-16221 Tow Hitch

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Receiver Mount
2	1	Hardware Kit
3	2	Frame Brackets
4	2	Closeout Plates

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	8	M12 Bolt
2		
3		

Additional Items Required for Installation

Item #	Quantity Reqd.	Description
1	1	Lower Bumper Fascia Kit (STD) (PT228-16222)
	1	Lower Bumper Closeout (HV/Sport) (PT228-16230)
2	1	Receiver plug (C0325-99990)
3	1	TOW HITCH ONLY--Tow Wire Harness (MY22:PT725-16220)(MY23+:PT725-16230), (not applicable for Activity Mount)

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	**Notes**
Safety glasses	Please see your Toyota dealer for a copy of this document.
Cloth / shop towel	
Installation Tools	**Notes**
Torque Wrench	>171 Nm (126 ft-lbf)
Socket Wrench	
Socket Extension	
Socket	M10, M12, M17
Small Flat Head Screwdriver	
Clip puller	
Cutting Tool	

General Applicability

MY22 and newer Corolla Cross models

Recommended Sequence of Application

Item #	Accessory
1	Activity Mount/Towing Hitch
2	Tow Wire harness (for Tow Hitch ONLY)
3	Lower Bumper Fascia
4	Mudguard

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		

Legend

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

OPERATOR SAFETY: Use caution to avoid risk of injury.

CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.

REVISION MARK: This mark highlights a change in installation with respect to previous issue.

SAFETY TORQUE: This mark indicates that torque is related to safety.

REGULATORY MARK: This mark indicates the component is related to regulatory compliance

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1. Prepare Vehicle for Hitch Installation.

(a) Verify kit contents

(b) Cover exhaust pipe with clean shop towel

(c) Caution: muffler may be hot and/or sharp

(d) Wear safety glasses.

2. Remove the Wheel Liner (LH/RH)

(a) Use a flat head screwdriver or clip puller to remove 4 push pins along the wheel liner (Figs. 2-1 & 2-2).

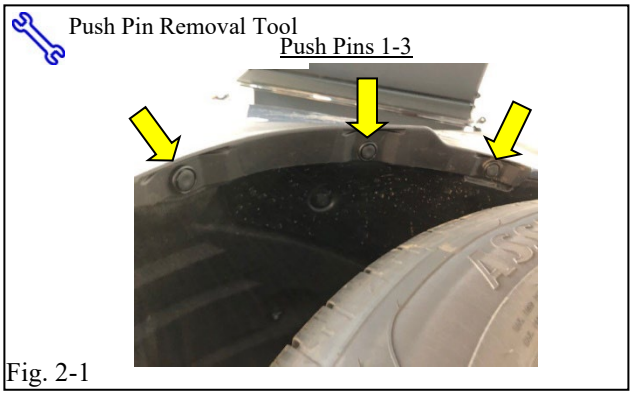


Fig. 2-1

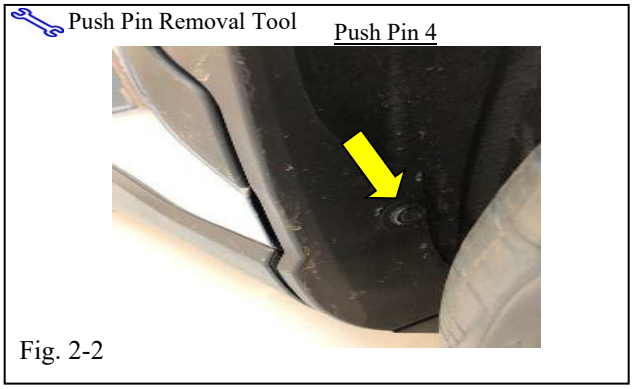


Fig. 2-2

(b) Use a 10mm socket head screwdriver to remove the single screw at the bottom of the wheel liner (Fig. 2-3).

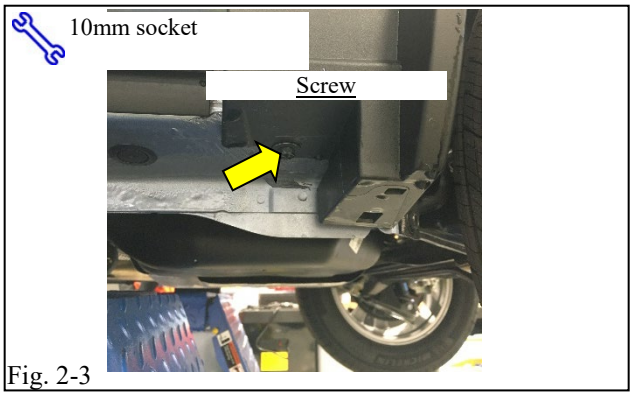


Fig. 2-3

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Plastic Nut



Fig. 2-4

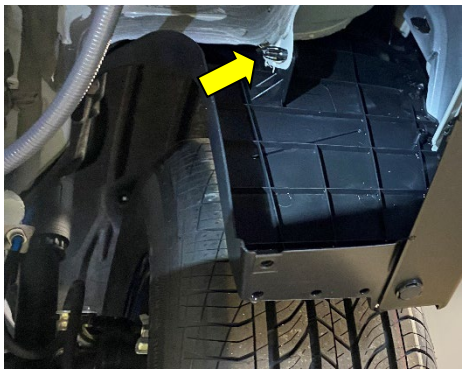


Fig. 2-5



Fig. 2-6

Flat Head Screwdriver

Lower Fascia Push Pin (LH)



Fig. 3-1

(c) Remove the plastic nut on the wheel liner bracket (Fig. 2-4). Remove rearward inboard clip (Fig. 2-5). Remove the plastic wheel liner bracket.

(d) Open rear door. Starting from the forward end, pull the wheel liner outboard to disengage the first 11 clips. Disengage the remaining 3 most rearward clips by first disengaging by hand (Fig. 2-6). Remove the wheel liner.

3. Remove the Lower Fascia Cover from the Lower Bumper

(a) Use a flat head screwdriver to disengage 2 push pins under the lower fascia (Fig. 3-1).

(b) Use a Phillips head screwdriver to disengage 2 Phillips screws on the fascia cover (Fig. 3-2).

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Phillips Screwdriver

Lower Fascia Cover Screw (RH)



Fig. 3-2

(c) Use an M10 socket and a socket wrench to remove 4 M10 screws on the Lower Fascia Cover (Fig. 3-3).

Socket Wrench

M10 Socket

Lower Fascia Cover Screw (RH)



Fig. 3-3

(d) Use a flat head screwdriver to disengage 1 push pin at each rear wheel on the lower fascia (LH/RH) (Fig. 3-4).

Flat Head Screwdriver

Rear Wheel Push Pin (RH)

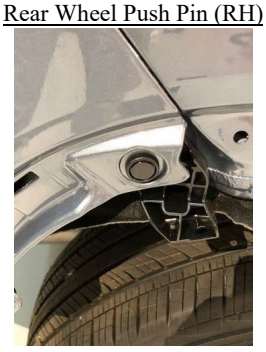


Fig. 3-4

(e) Place protective tape as necessary to the forward body panel (which remains on the vehicle) to avoid scratching during removal and re-installation (Fig. 2-6). Starting from the front, carefully detach the Lower Fascia Cover from the bumper and detach the wire harness clip (if present). (Fig. 3-5)

(f) Remove the Lower Fascia Cover from the bumper.

Wiring Harness Clip



Fig. 3-5

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Socket Wrench
M12 Socket

Frame Hole Locations

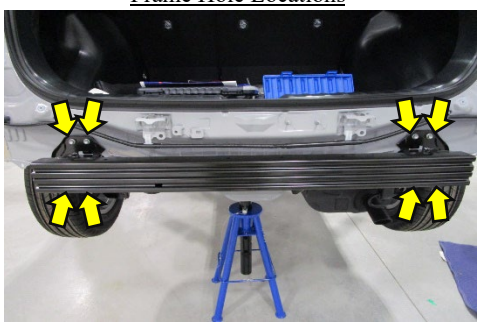


Fig. 4-1

Plastic scraper tool

Remove hole sticker after sealant is removed



Fig. 5-1

Torque Wrench
M17 Socket

Frame Hole Locations



Fig. 5-2

Socket Wrench
M12 Socket

LH Side Closeout Plate

Closeout Plate Hole Locations

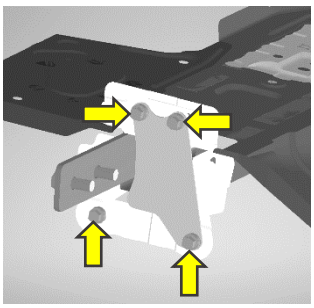


Fig. 5-3

4. Remove Bumper Beam and Discard

(a) Remove 8 bolts from the bumper bar (Fig. 4-1). Remove and discard bumper beam. Set the bolts aside for later use.

5. Install Frame Brackets

(a) Remove sealant and stickers covering bolt holes (Fig 5-1) so bolt heads sit flush to frame. Do not use a metal tool.

(b) Hand-tighten bolts so the brackets are flush to the frame rail. (Fig 5-2)

(c) Attach the closeout plates (LH/RH) using all 8 M8 bolts removed from the bumper bar in step 4-a. Torque the bolts to 30 Nm (22 ft-lbs) (Fig. 5-3).

⚠ Note: three bolts are used to attach the bracket and one bolt is re-installed on the vehicle.

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Socket Wrench
M17 Socket
Hitch & Frame Brackets
Frame Bracket Bolt Locations

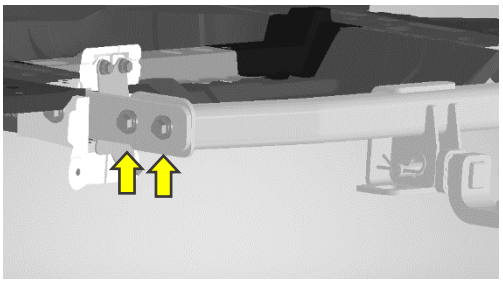


Fig. 6-1

Socket Wrench
M17 Socket
Hitch & Frame Brackets
Clearance to Vehicle Opening

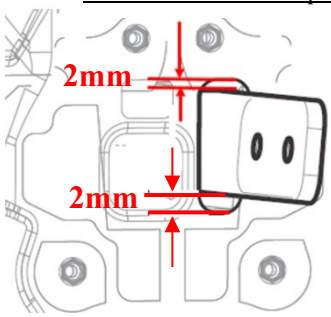


Fig. 6-2

Torque wrench
M17 Socket
Bolt Tightening Order

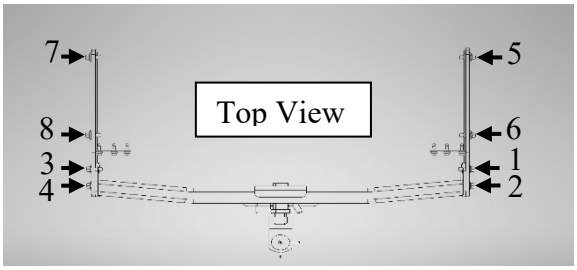


Fig. 7-1

6. Install Cross Tube.

(a) Lift cross tube into position in between the two frame brackets. Visually align the holes with the holes in the brackets (Fig. 6-1).

(b) Install (2) M12 bolts through the frame brackets into the hitch bracket weld nuts on both the LH and RH sides (Fig. 6-1).

(c) Visually center bracket in vehicle opening to provide 2mm minimum clearance to top and bottom portions of vehicle opening (Fig. 6-2).

7. Torque Hitch Bolts.

(a) Tighten all M12 bolts to 119 Nm (88 ft-lbf) in the order shown. An extension may be needed for bolts 7 & 8 (Fig. 7-1).

Torque: 119 Nm (88 ft-lbf)

8. Install Wiring Harness (Tow Hitch Only)

(a) If installing Tow Hitch, install wire harness at this point per PT725-16220 instructions.

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Bumper Fascia – Hitch Cover Clip Locations

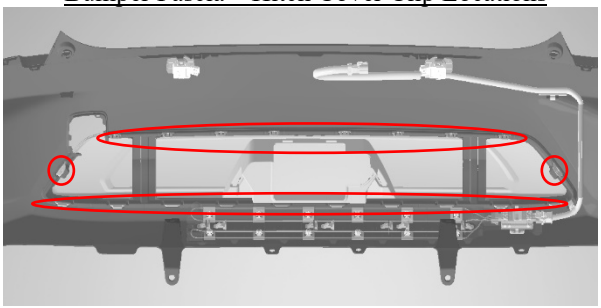


Fig. 9-1

Bumper Fascia Removal

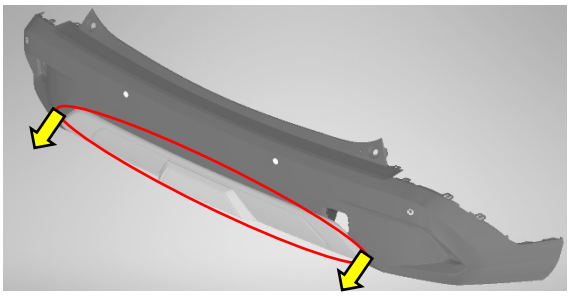
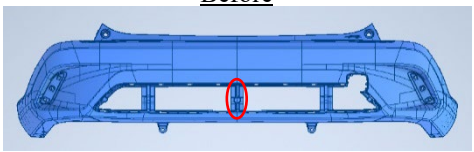


Fig. 9-2



Fig. 9-3

Before



After

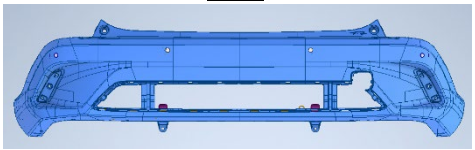


Fig. 9-4

9. Remove Lower Cover from Bumper Fascia

NOTE: Steps 9-12 are applicable to Normal (STD) vehicles and fascia part PT228-16222. For HV & Sport vehicles and fascia PT228-16230, skip to step 13.

(a) Carefully detach the 18 snap fits and 2 Kanuki clips on the lower bumper fascia cover and remove the cover from the fascia. (Figs. 9-1 & 9-2). Discard the lower cover.

(b) Remove tow hook close out cover from glove box and install onto lower fascia. Note the retention feature must be first threaded onto the lower fascia (Fig 9-3).

(c) Trim out the center pillar in the lower fascia opening. (Fig 9-4)

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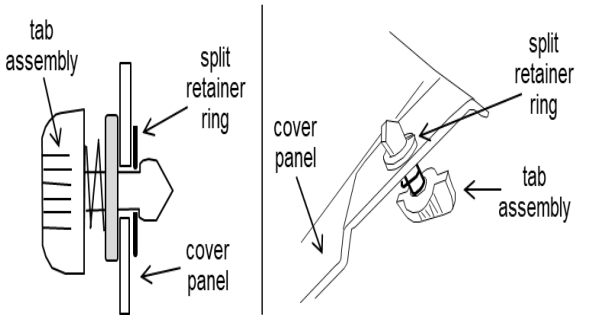
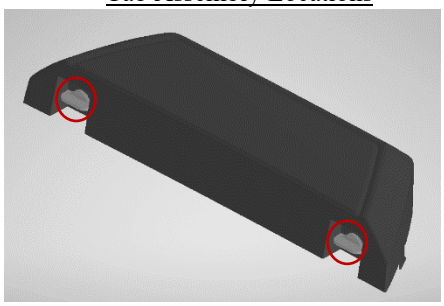
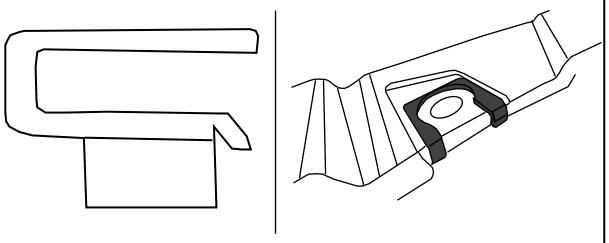


Fig. 10-1

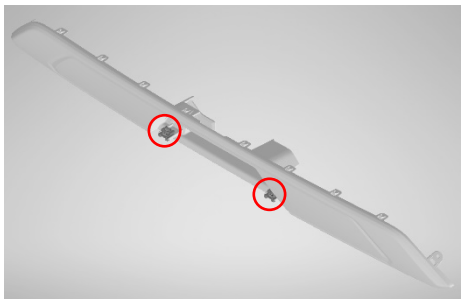
Tab Assembly Locations


Fig. 10-2

Clip-On Receptacles


Fig. 10-3

Clip-On Receptacle Locations


Fig. 10-4

10. Install Clips onto Hitch Lower Cover

(a) Install the tab assemblies into the center cover panel as shown. Install the split retainer ring onto the opposite of the cover panel to hold everything in place. (Figs. 10-1 & 10-2)

(b) Install the clip-on receptacle onto the main bumper fascia (Figs. 10-3 & 10-4).

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Bumper Fascia – Lower Cover Clip Locations

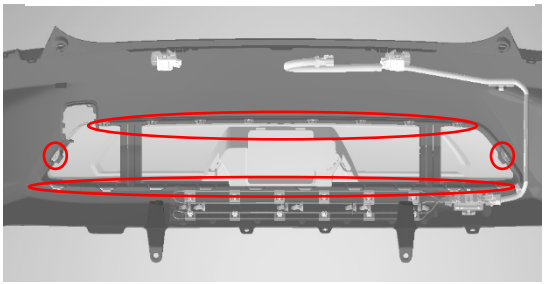


Fig. 11-1

11. Install Tow Hitch Lower Cover onto Bumper Fascia.

(a) Install tow hitch lower cover to bumper fascia using the same attach points used to hold lower cover clips seen in step 9-a. (Fig. 11-1).

(b) Reinstall the fasteners removed in step 9-a.

Closeout Plate Install Location

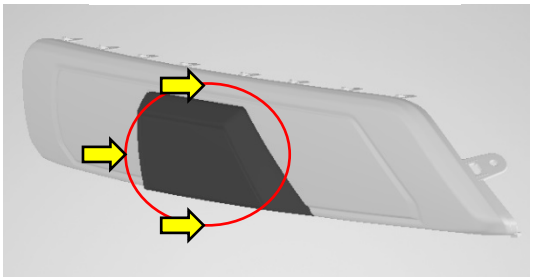


Fig. 12-1

12. Install Closeout

(a) Attach the closeout plate to tow hitch lower cover and secure each clip in the proper attach point (Figs. 12-1 & 12-2).

(b) Turn installation clip tabs ¼ clockwise to lock the cover in place (Fig. 12-3).

Closeout Plate Installation Clip Tabs

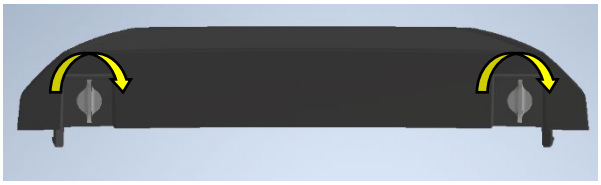


Fig. 12-2

Closeout Plate Clips

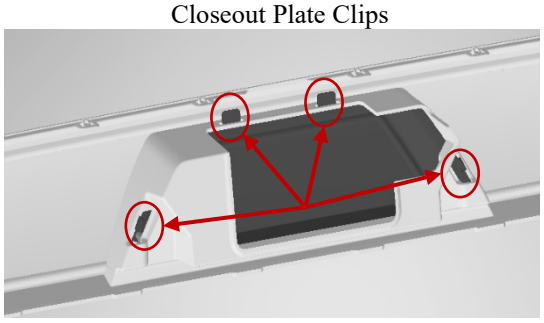


Fig. 12-3

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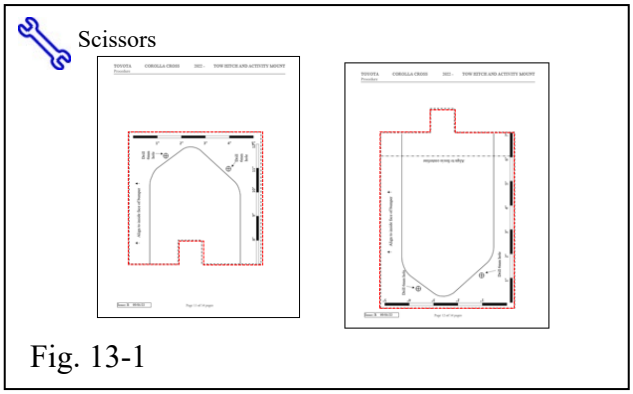


Fig. 13-1

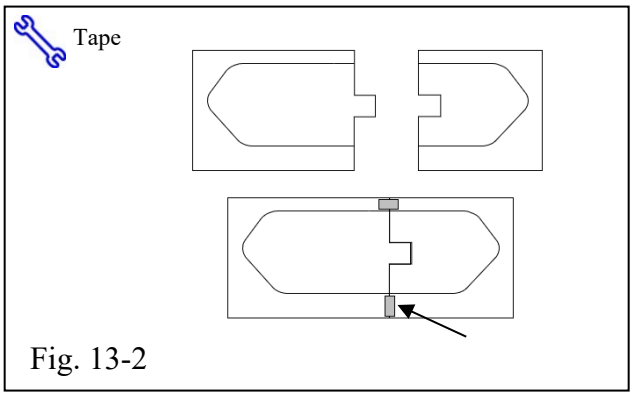


Fig. 13-2

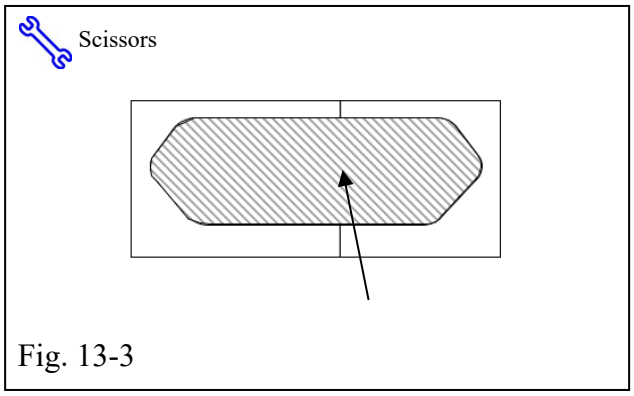


Fig. 13-3

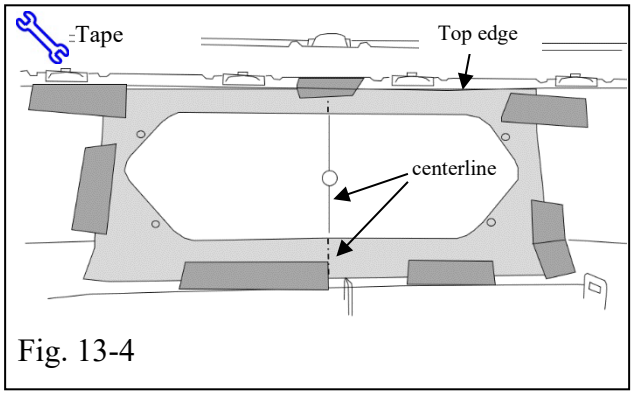


Fig. 13-4

13. Prepare Cutting Template

NOTE: Steps 13-15 are applicable to HV & Sport vehicles and fascia PT228-16230.

(a) Print out the template on pgs. 12-13. Print at actual size (or 100%). Do NOT 'fit to page'

(b) Use the ruled lines to verify correct print size.

(c) Cut the templates out along the dotted line. (Fig. 13-1)

(d) Tape the 2 pieces together. (Fig 13-2).

(e) Cut out the inside profile. (Fig 13-3).

(f) Locate the paper template on the inside surface of the bumper fascia by aligning the bumper centerline with the template centerline and aligning the top edge of the template with the top edge of the flat surface just below the clips. (Fig. 13-4).

(g) Tape the template into place and mark the opening and 4 hole locations onto the bumper. (Fig. 13-4)

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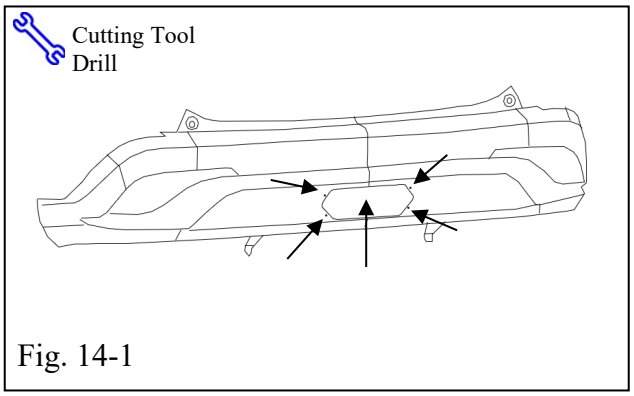
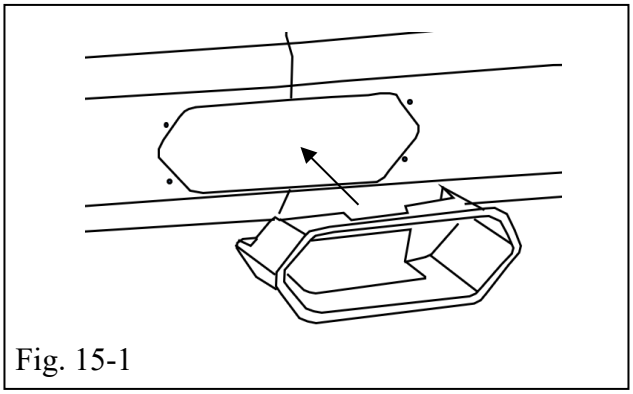


Fig. 14-1


Fig. 15-1

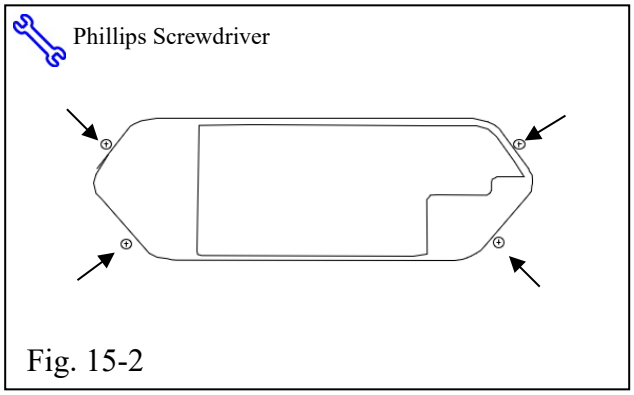


Fig. 15-2

14. Cut Bumper

(a) Using a cutting tool, cut out the opening in the bumper fascia. Then use a drill with the 6mm (or ¼") bit to drill holes into the bumper in the 4 locations per the template. (Fig. 14-1)

(b) Clean the rough edges of cut surfaces

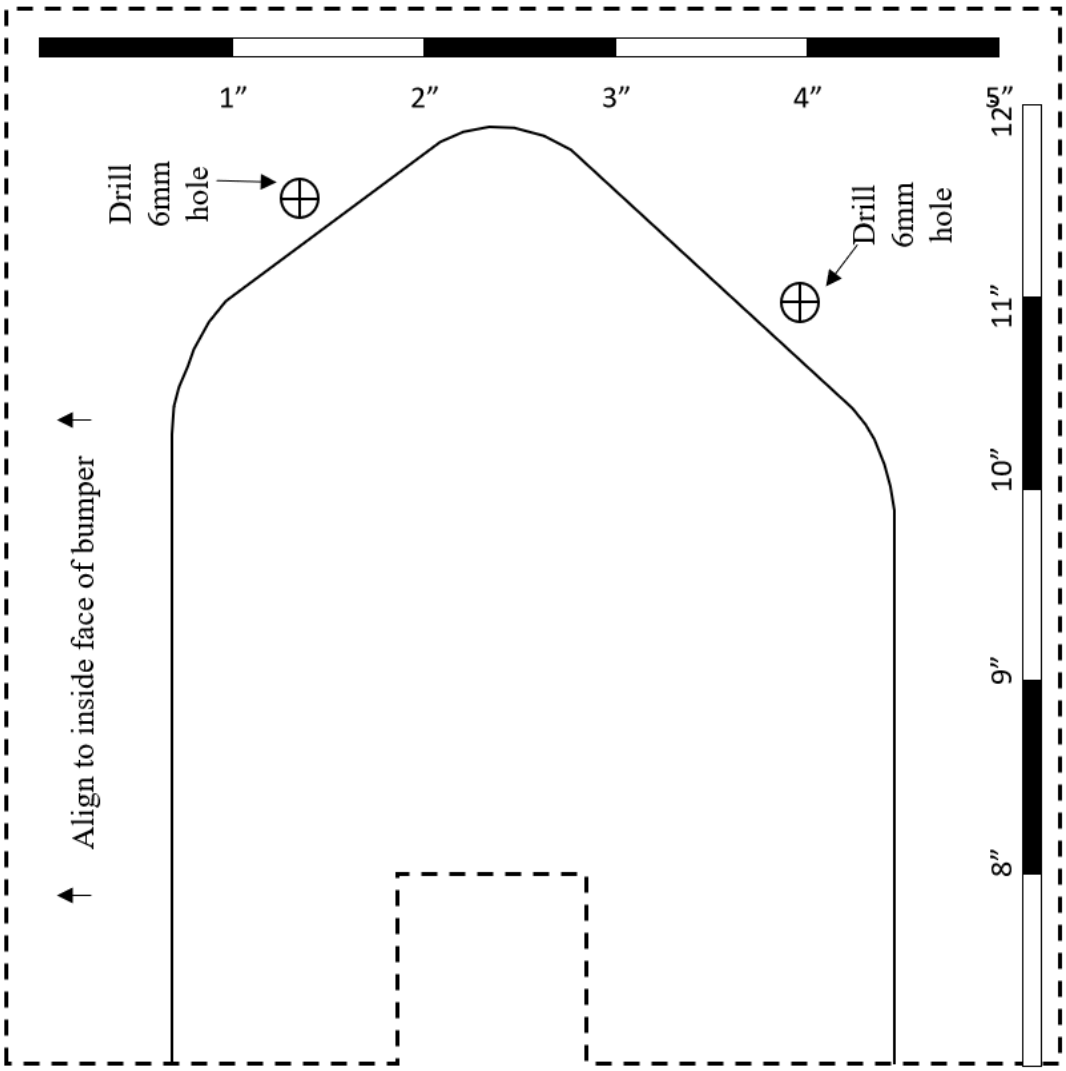
15. Install Closeout Cover

(a) Install the closeout cover into the bumper opening from the outside.

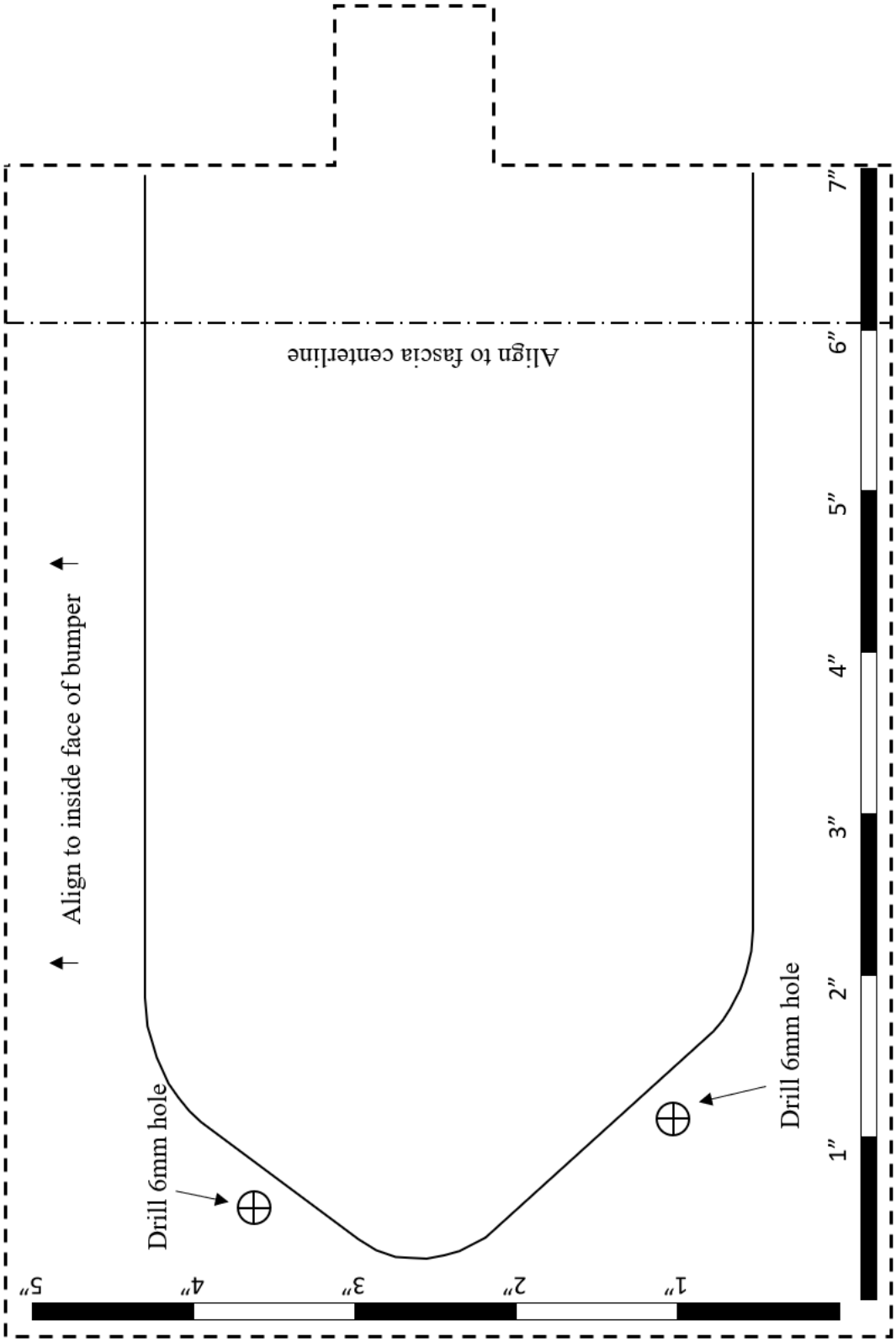
(b) Align the bumper hole with the screw hole in the closeout and install a self-tapping screw & flat washer. Repeat for the 3 remaining holes. (Fig. 15-2)

While pushing the closeout flush to the bumper, tighten the 4 screws (Fig. 15-2); if a drill/driver is used, make sure it is on a setting low enough to prevent overtighten. Over tightening will cause stripping of the holes and damage to the closeout.

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16. Re-install fascia (all grades)

(a) Re-install bumper fascia onto (Step 3)

Note: re-connect rear back-up sensor (if applicable)

Note: clip in step 3d (Fig 3-4) must be reinstalled prior to re-installing fender liner

(b) Re-install fender liner (Step 2)

(c) Re-install fender liner bracket (Step 2)

17. Receiver plug

(a) Place receiver plug (C0325-99990) in glove box

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Checklist - these points **MUST** be checked to ensure a quality installation.

Accessory Function Checks	Look For:
☐ Perform visual check of trailer hitch	No visible gaps between mating parts of loose bolts.
☐ Installation Torque (M17 bolts)	119 Nm (88 lbf-ft)
☐ Installation Torque (M12 bolts)	30 Nm (22 lbf-ft)
☐ Receiver neck clearance.	Must not be touching lower bumper cover opening.
☐ Bracket clearance	2mm minimum clearance to top and bottom portion of vehicle opening
☐ Removed parts.	Scratches or other damage
☐ Vertical indicator lines on bracket	Visible from side of vehicle
⚠ ☐ Rear Back-up sensor (if equipped) Caution: Be sure the foot brake is applied	Listen for sound when object is placed near sensor

Vehicle Appearance Check	Look For:
☐ After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMNA Accessory Quality Shipping Standard.)

FOR TORQUE AUDIT PURPOSES ONLY			
Fastener Description	Audit Torque Range	Target	Page #
8x M12 Bolts	(S) 103-171 N·m (76-126 ft·lbf)	119 N·m (88 ft·lbf)	5

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