

Part Number: PZ408-X2551-00

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Tow Bar
2	1	Side Plate - LHS
3	1	Side Plate - RHS
4	1	Counter Bracket - LHS
5	1	Counter Bracket - RHS
6	1	Hanger Bracket - RHS
7	1	Hanger Bracket - LHS
8	2	Support Bracket
9	2	Spacer Plate - Common
10	1	Spacer Plate - RHS
11	1	Spacer Plate - LHS
12	1	Tow Harness Bracket

Hardware Bag Contents

Item #	Quantity Reqd.	Description
13	6	Washer (M8)
14	6	Lock Washer (M8)
15	6	Bolt (M8 x 40)
16	6	Bolt (M12 x 60)
17	6	Flange Nut (M12)
18	6	Washer (M12)
19	10	Lock Washer (M12)
20	10	Bolt (M12 x 1.25 x 50)
21	2	Bolt (M6 x 20)
22	2	Flange Nut (M6)
23	1	Bolt (M6 x 30)
24	1	Edge Trim
25	2	Washer (M6)
26	2	Nut Cap (M6)
27	1	Towing Capacity Label

Additional Items Required For Installation

Item #	Quantity Reqd.	Description

Conflicts

--

General Applicability

All NX models

Recommended Sequence of Application

Item #	Accessory

*Mandatory







Vehicle Service Parts (may be required for reassembly)

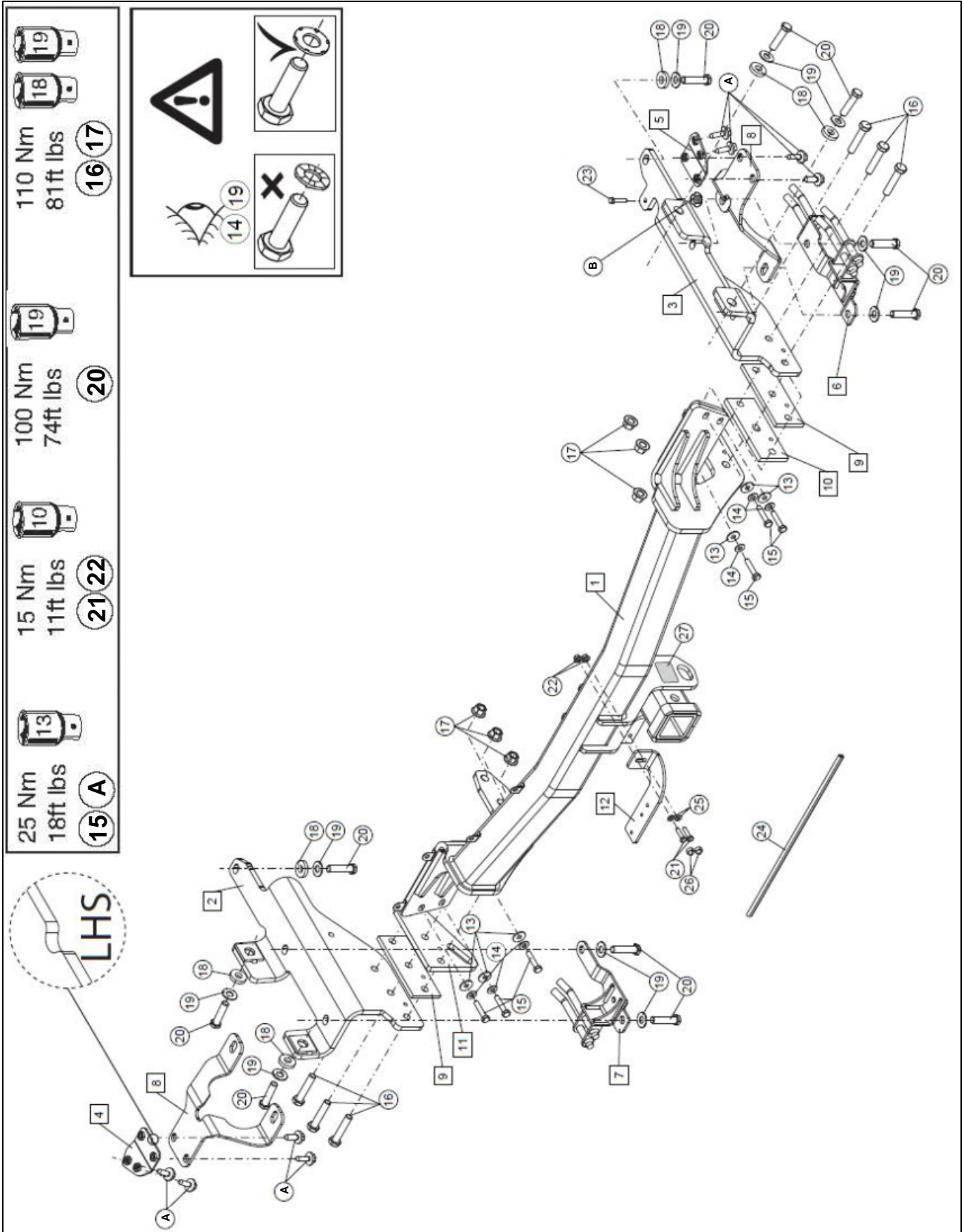
Item #	Quantity Reqd.	Description
1	1	Tongue, PZ408-X2553-00

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Shoes	
Special Tools	Notes
Installation Tools	Notes
Ratchet	3/8" Drive
Medium Extension	3/8" Drive
Sockets	10mm, 12mm, 13mm, 14mm, 17mm, 18mm & 19mm
Screwdriver	Phillips #2
Allen Wrench	4 mm
Hanger Removal Tool	
Plastic Trim Removal Tool	
Tape Measure	
Deburring Tool	
Marking Pen	
Tape	Masking, used for protection
Scraper	
Rotary Cutting Tool	
Tin Snips	
Torque Wrench	0-100 ft-lbf
Special Chemicals	Notes
3M Ultra Underbody Sealant	C0009-08302

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.



Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Lexus dealer for a copy of this document.

1. Read all Warnings.



(a) Max towing capacity:

- (1) Gasoline – 2000 lbs
- (2) Hybrid – 1500 lbs



(b) Max tongue weight:

- (1) Gasoline – 200 lbs
- (2) Hybrid – 150 lbs



(c) Remove undersealing, anti-corrosion wax and noise deadening material in the area of the contact surfaces.

(d) Apply corrosion protection material as specified in the Lexus service guidelines, where necessary.

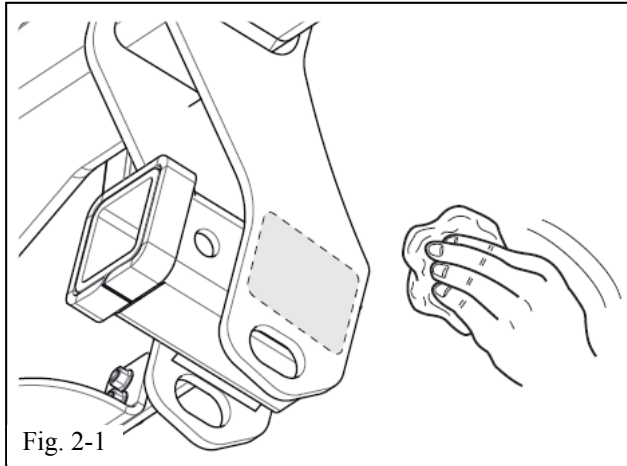


(e) After approximately 600 miles of trailer use, retighten all bolts to the correct torque values.

(f) For correct trailer loads, please refer to the vehicle documents of the individual vehicle model.

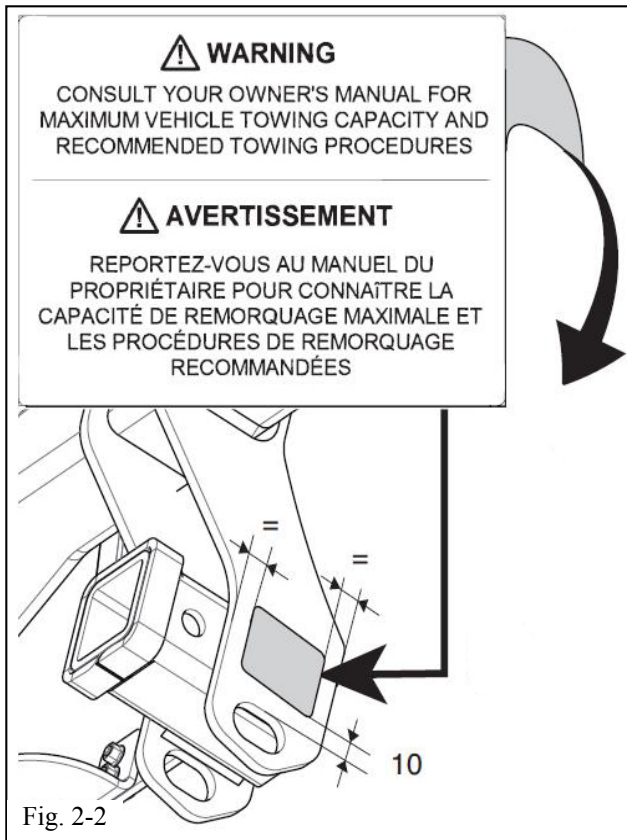
(g) The coupling ball must be kept clean and well greased*.

*EXCEPTION: When stabilizers are used, proceed according to the instructions of the manufacturers of the stabilizer. In this case coupling ball must be inspected for wear at regular intervals. The trailer coupling must be installed and inspected in accordance with the applicable national regulations.



2. Affix the Towing Capacity Label.

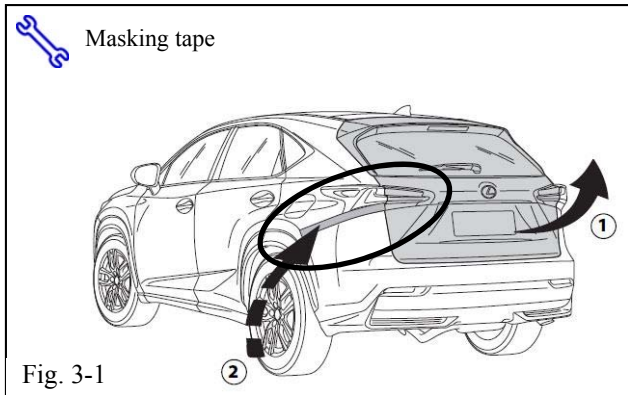
- (a) Use VDC approved cleaner to clean the area on the right hand side of the tow bar (Fig. 2-1).



- (b) Peel off the protective backing from the towing capacity label and apply it to the right hand side of the tow bar (Fig. 2-2).


3. Disassemble the Vehicle.

- (a) Open the lift gate (1) and apply masking tape (2) to both sides of the vehicle where the bumper cover ends to protect it from damage (Fig. 3-1).

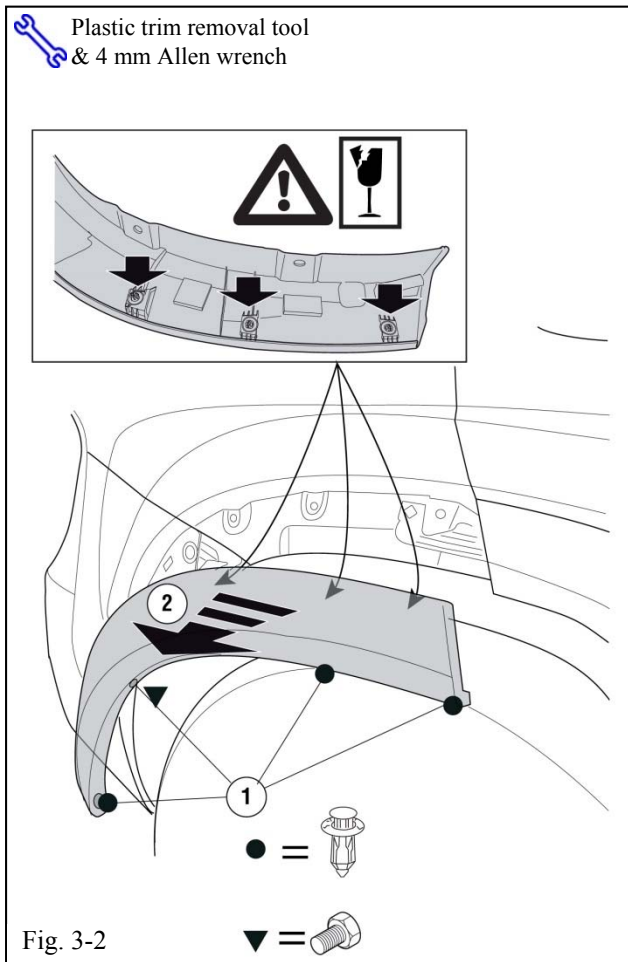


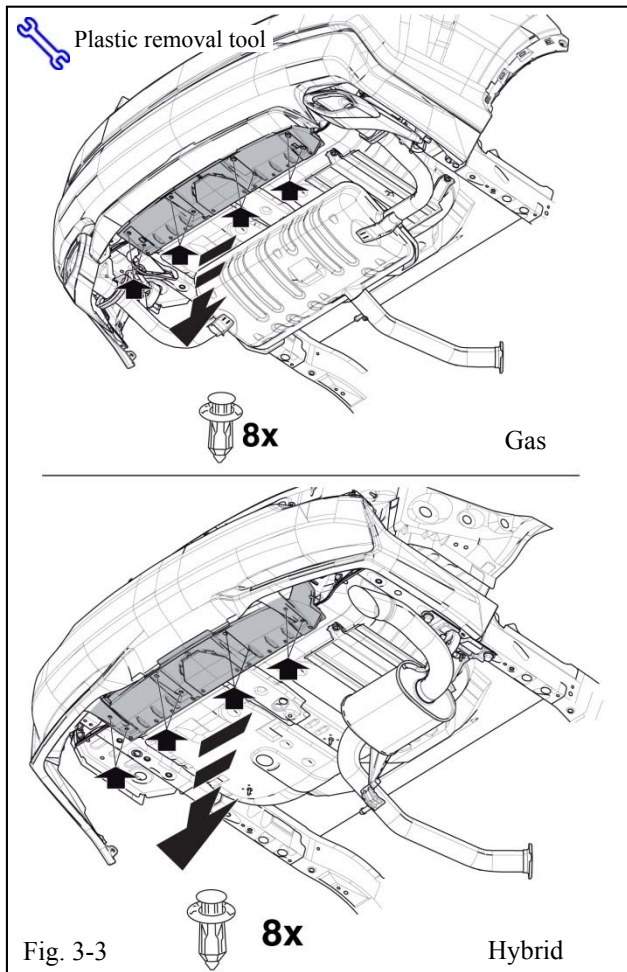
- (b) Remove the LH and RH rear fender flare trim (Fig. 3-2).

- (1) Remove the 3 clips and the Allen head bolt on each side (1, Fig. 3-2).

-  (2) Be careful not to damage the part when removing the 3 clips along the top (2, Fig. 3-2).

NOTE: Foam tape is also used to attach the part.



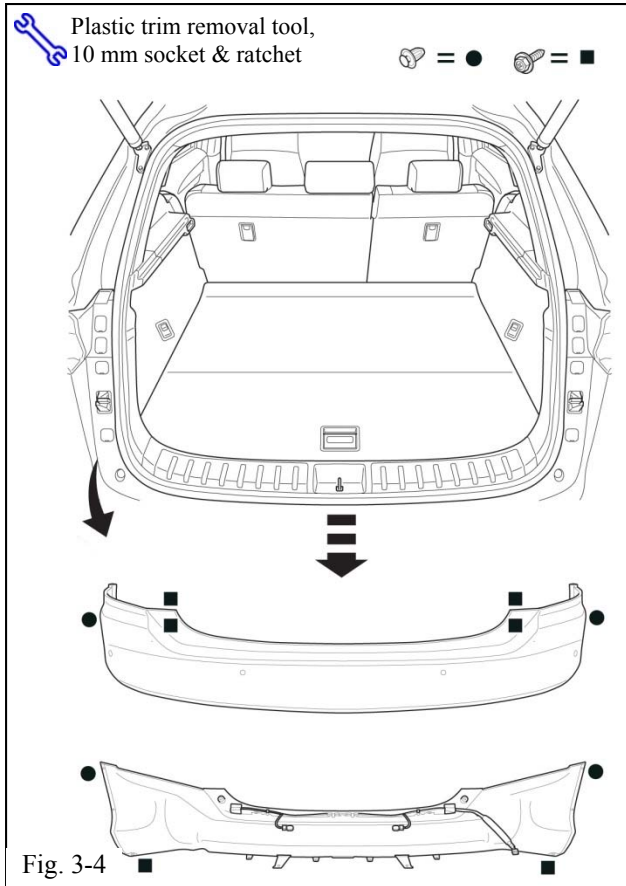


(c) Remove the 8 clips and then the undercover (Fig. 3-3).

(d) Disconnect the connector and remove the rear bumper cover (Fig. 3-4).

(1) Remove the 4 clips (● Fig. 3-4).

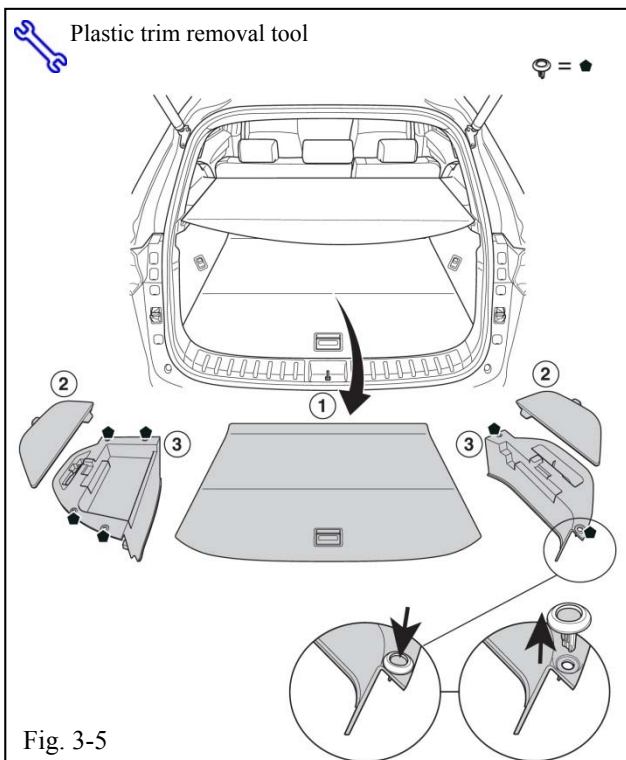
(2) Remove the 6 screws (■ Fig. 3-4).

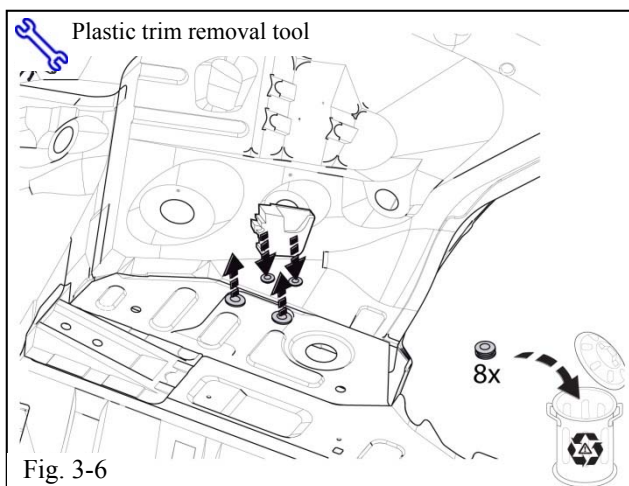


(e) Remove the rear compartment components (Fig. 3-5).

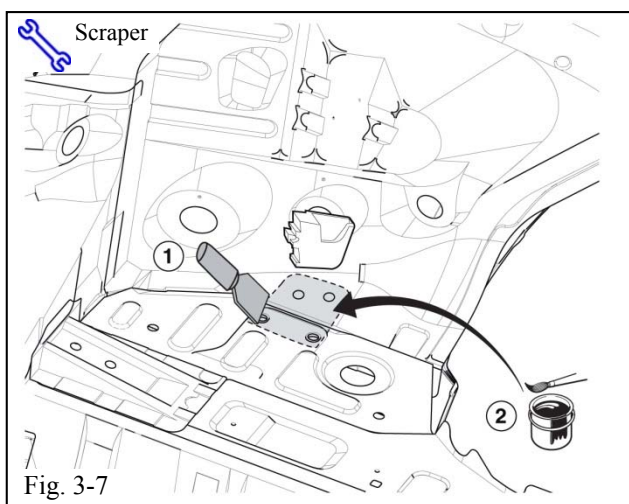
(1) Remove the 6 clips (◆ Fig. 3-5).

(2) Remove the parts in the order shown (Fig. 3-5).

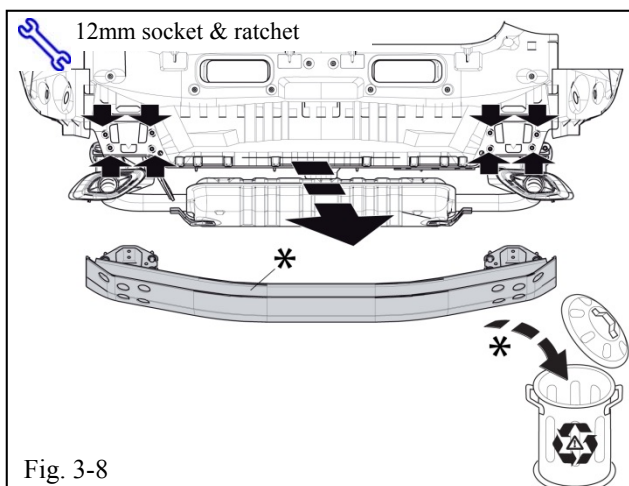




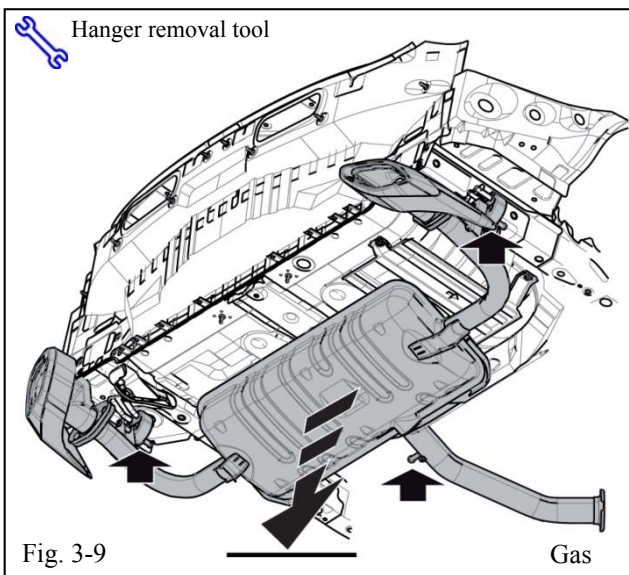
- (f) Remove the 4 grommets from each side (Fig. 3-6).
- (g) Discard the grommets.



- (h) Remove any excess sealant from the area the grommets were removed on both sides (Fig. 3-7). Coat any bare metal with 3M Ultra Underbody Sealant (C0009-08302).

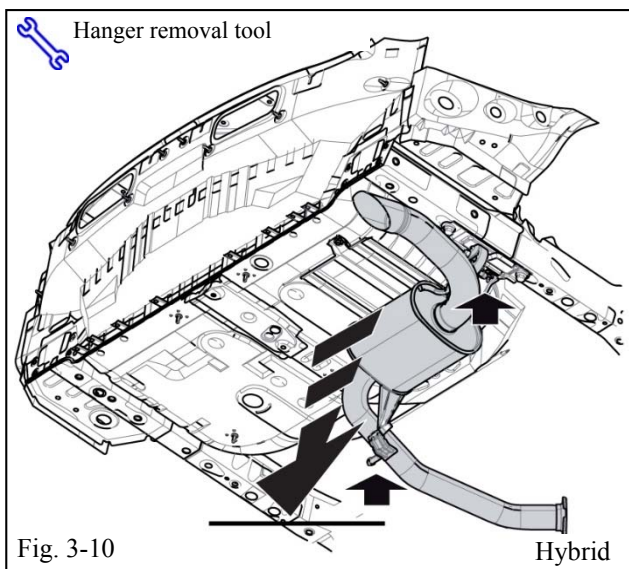


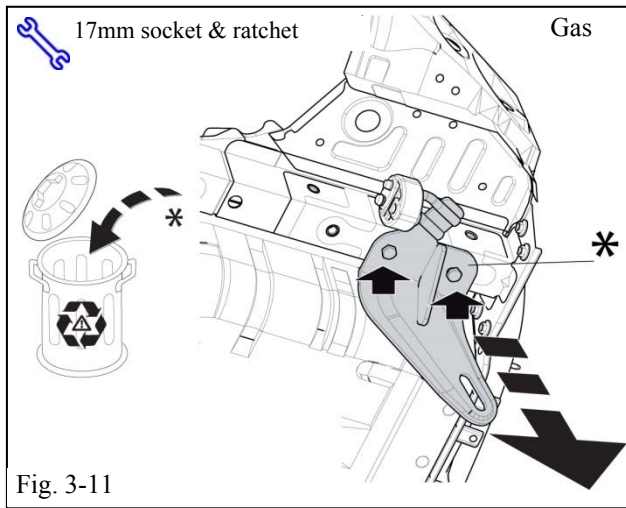
- (i) Remove the 8 bolts and the rear bumper beam (Fig. 3-8). The beam will not be reused but retain the bolts for reassembly.



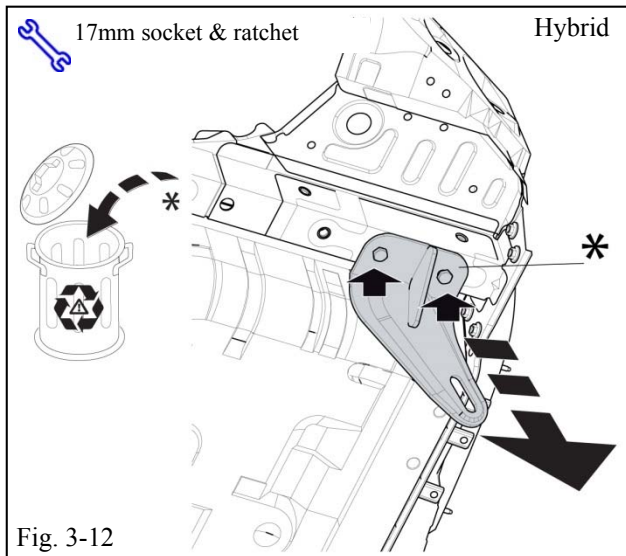
- (j) Unhook the muffler hangers and remove the muffler (Gas, Fig. 3-9 & Hybrid, Fig. 3-10).

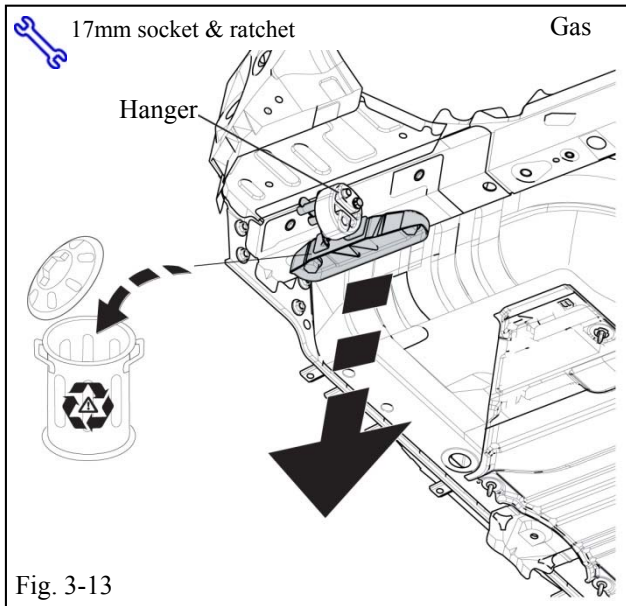
⚠ NOTE: Support the muffler with a stand.



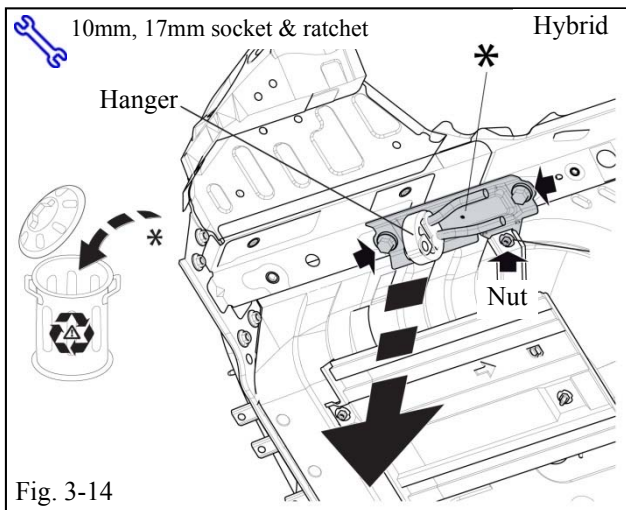


(k) Remove and discard the 2 bolts and the tow hook from the driver's side (Gas, Fig. 3-11 & Hybrid, Fig. 3-12). Retain the rubber hanger for reassembly (Gas engine only).

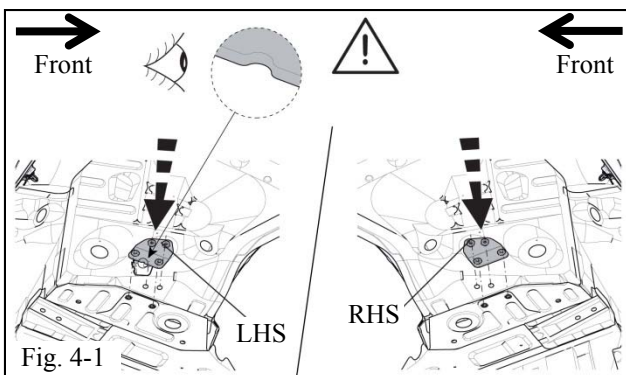




- (l) **GAS:** Remove and discard the 2 bolts and the tow hook from the passenger's side (Fig. 3-13). Retain the rubber hanger.



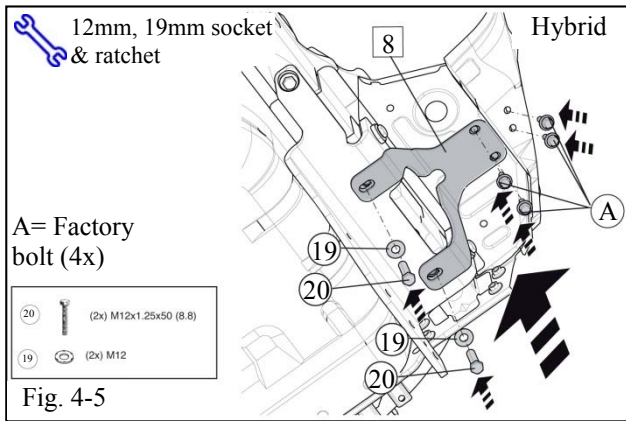
- (m) **HYBRID:** Remove the 2 bolts and the nut, then the tow hook from the passenger's side (Fig. 3-14). Discard the bolts & bracket but retain the nut and the rubber hanger.



4. Install the Tow Hitch.

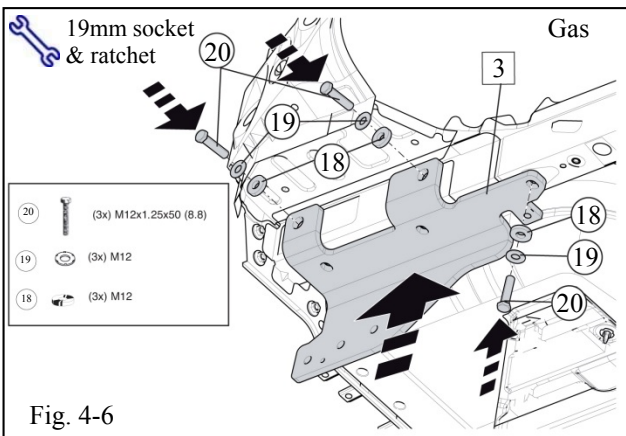
- (a) Position the LHS counter bracket (Item 4) on the driver's side and RHS counter bracket (Item 5) on the passenger's side inside the hatch area (Fig. 4-1).

NOTE: Ensure the notch is properly aligned on the driver's side.



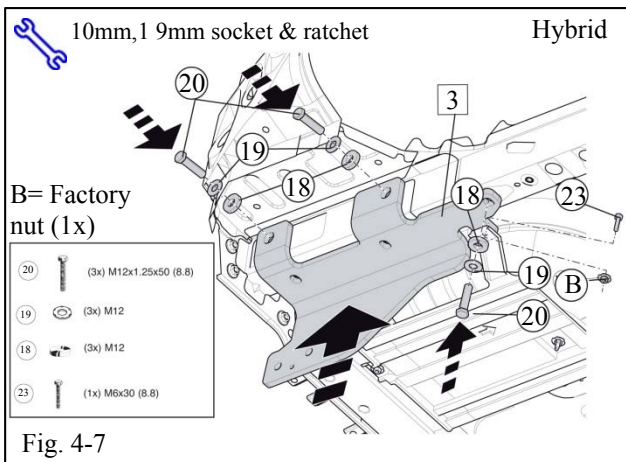
(a) **HYBRID:** Install the support bracket (Item 8) on the driver's side (Fig. 4-5). Use four of the bolts (Item A) removed in Step 3(i) and two each of the following:

- (1) M12x1.25x50 bolt (Item 20)
- (2) M12 lock washer (Item 19)



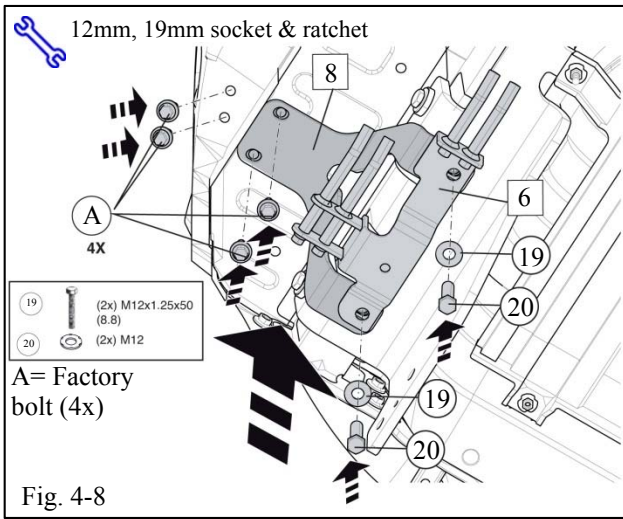
(b) **GAS:** Install the RHS side plate (Item 3) on the passenger's side (Fig. 4-6). Use three each of the following:

- (1) M12x1.25x50 bolt (Item 20)
- (2) M12 lock washer (Item 19)
- (3) M12 flat washer (Item 18)

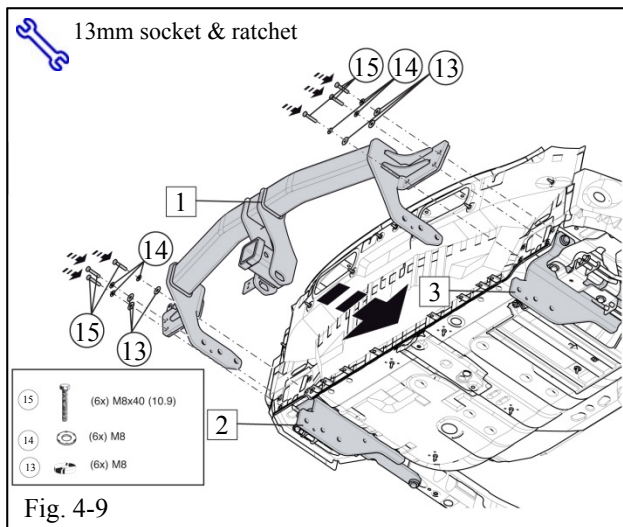


(c) **HYBRID:** Install the RHS side plate (Item 3) on the passenger's side (Fig. 4-7). Use the nut (Item B) removed in Step 3(m) and the following:

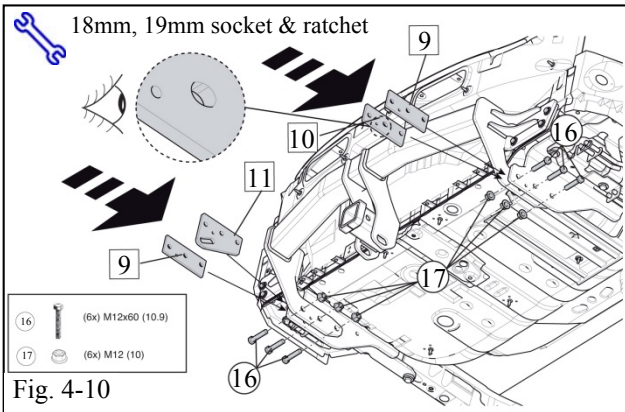
- (1) M12x1.25x50 bolt (Item 20) x3
- (2) M12 lock washer (Item 19) x3
- (3) M12 flat washer (Item 18) x3
- (4) M6x30 bolt (Item 23) x1



- (d) Install the support bracket (Item 8) and the RHS hanger bracket (Item 6) on the passenger's side of the vehicle (Fig. 4-8). Use four of the bolts (Item A) removed in Step 3(i) and two each of the following:
- (1) M12x1.25x50 bolt (Item 20)
 - (2) M12 lock washer (Item 19)



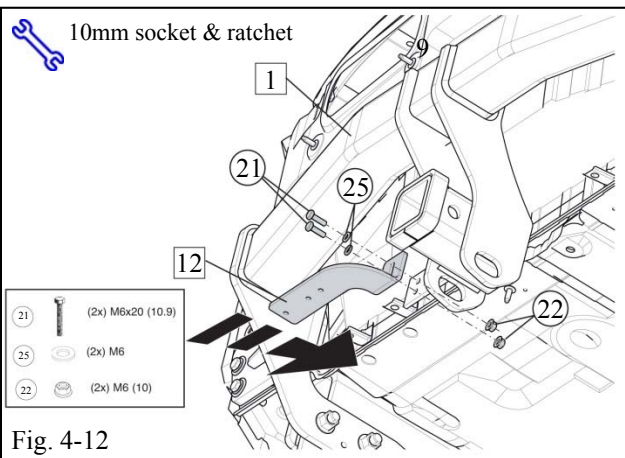
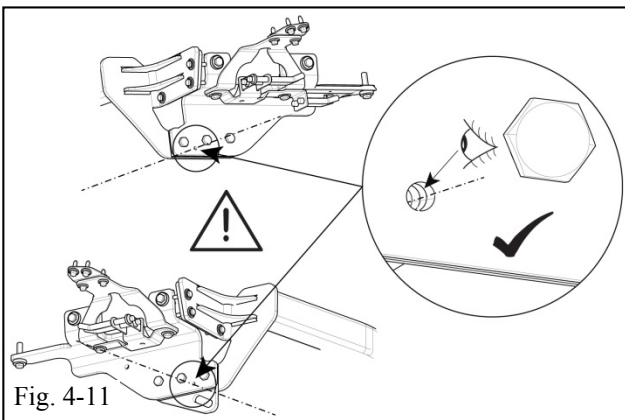
- (e) Install the tow bar (Item 1) (Fig. 4-9). Use six each of the following:
- (1) M8x40 bolt (Item 15)
 - (2) M8 lock washer (Item 14)
 - (3) M8 washer (Item 13)



(f) Install the spacer plates (Items 9, 10, and 11) (Fig. 4-10). Use six each of the following:

- (1) M12x60 bolt (Item 16)
- (2) M12 nut (Item 17)

NOTE: Ensure that the holes indicated in the spacer plates on both sides of the vehicle align before tightening the bolts (Fig. 4-11).






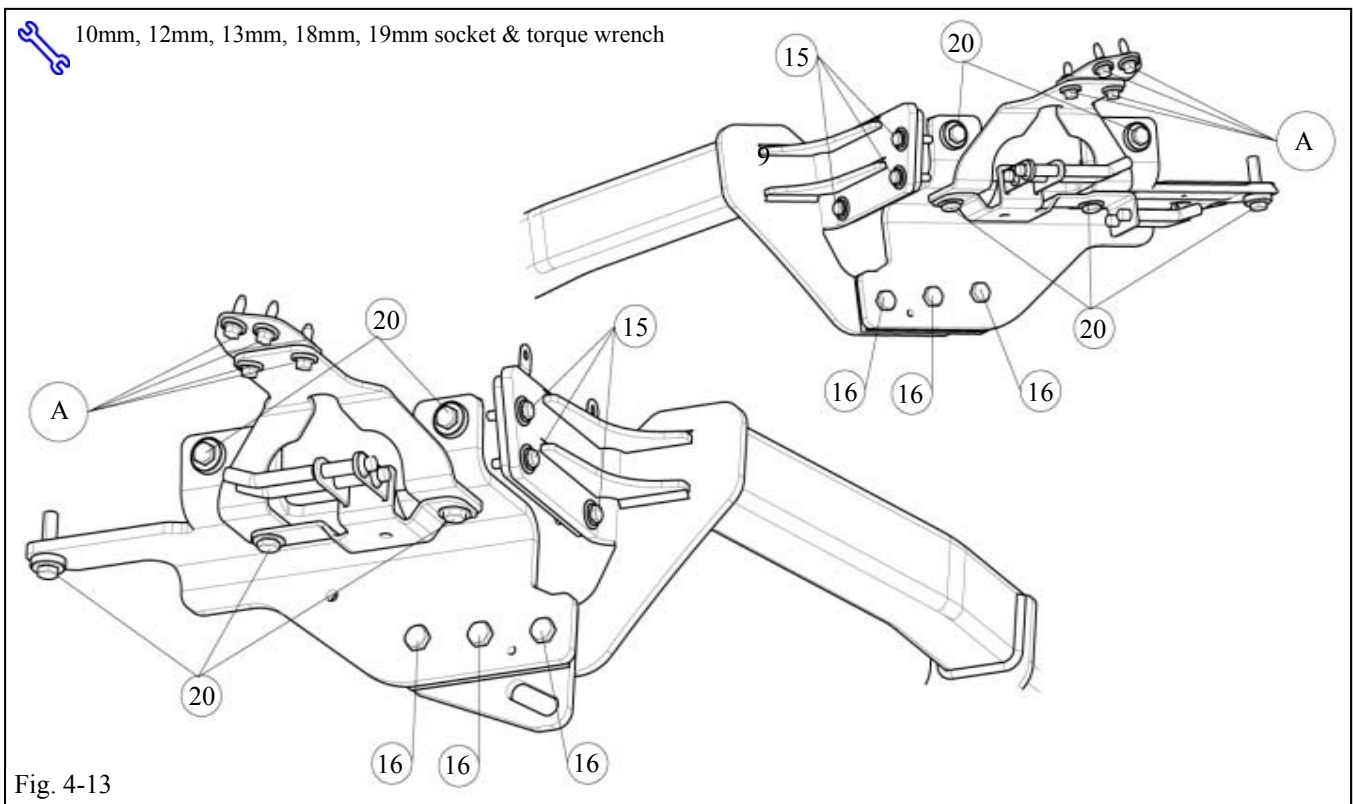
(g) Install the tow harness bracket (Item 12) (Fig. 4-12). Use two each of the following:

- (1) M6x20 bolt (Item 21)
- (2) M6 washer (Item 25)
- (3) M6 nut (Item 22)

S (h) Torque the hardware in the sequence below (Fig. 4-13):

NOTE: Sequence number 15, Item 21, is on the next page (Fig. 4-14).

Sequence			QTY	
1 (15)	25Nm	18ft lbs	3x	13
2 (15)	25Nm	18ft lbs	3x	13
3 (16)	110Nm	81ft lbs	1x	18/19
4 (16)	110Nm	81ft lbs	1x	18/19
5 (16)	110Nm	81ft lbs	1x	18/19
6 (16)	110Nm	81ft lbs	1x	18/19
7 (16)	110Nm	81ft lbs	1x	18/19
8 (16)	110Nm	81ft lbs	1x	18/19
9 (20)	100Nm	74ft lbs	2x	19
10 (20)	100Nm	74ft lbs	2x	19
11 (20)	100Nm	74ft lbs	3x	19
12 (20)	100Nm	74ft lbs	3x	19
13 (A)	25Nm	18ft lbs	4x	12
14 (A)	25Nm	18ft lbs	4x	12
15 (21)	15Nm	11ft lbs	2x	10



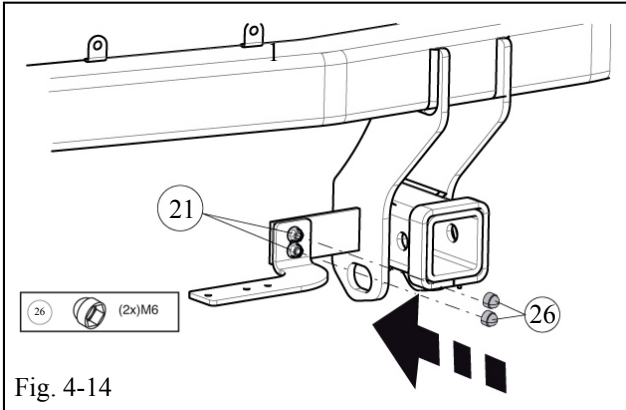


Fig. 4-14

- (i) Install the 2 nut caps (Item 26) on the 2 nuts (Fig. 4-14).



NOTE: Torque the nuts to 11 ft-lbf (15 N-m) before placing the caps.

5. Reassemble the Vehicle.

- (a) Install the muffler removed in Step 3(j) (Gas, Fig. 5-1 & Hybrid Fig. 5-2). Reuse the rubber hangers.

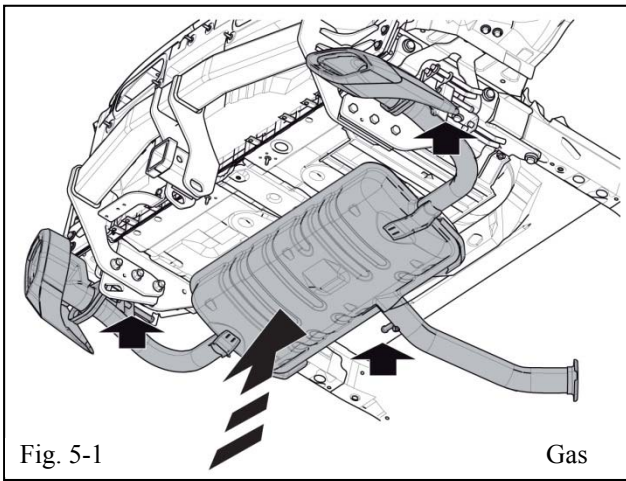


Fig. 5-1

Gas

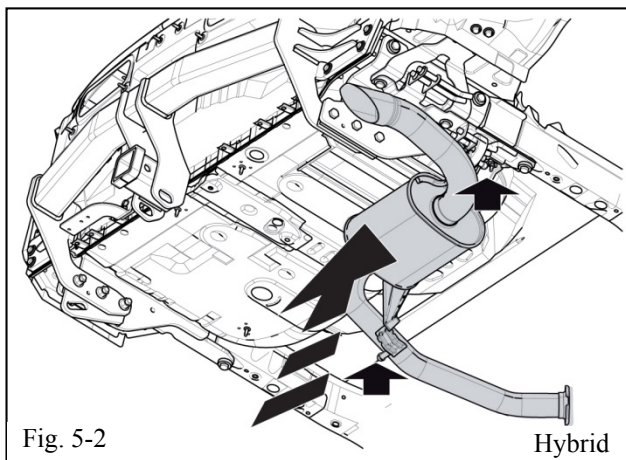
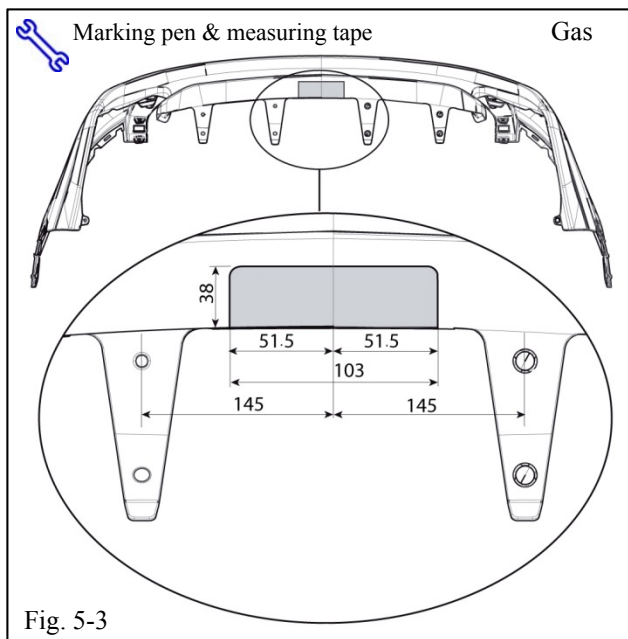


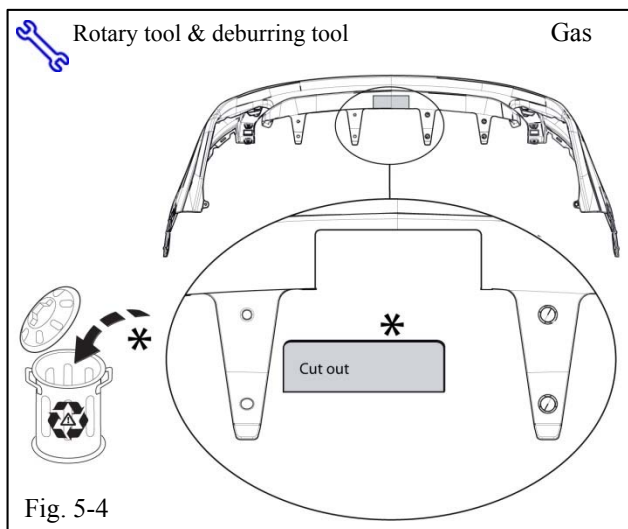
Fig. 5-2

Hybrid



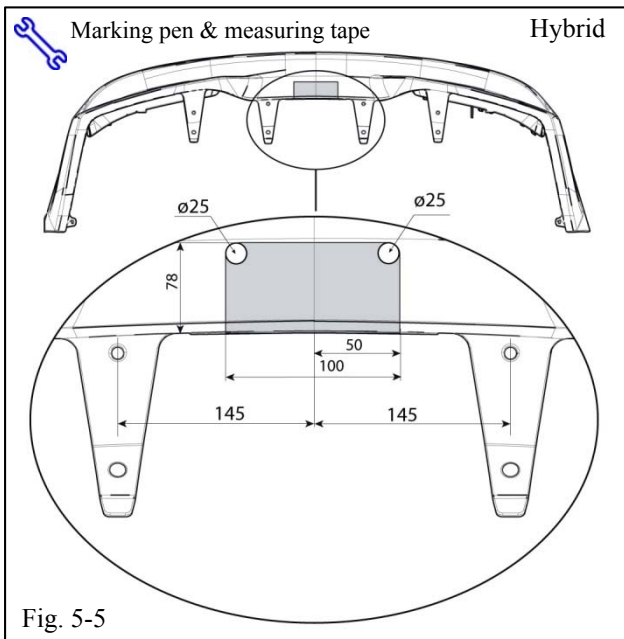
(b) **GAS:** Mark the rear bumper cover for cutting (Fig. 5-3).

⚠ NOTE: The dimensions are in mm.



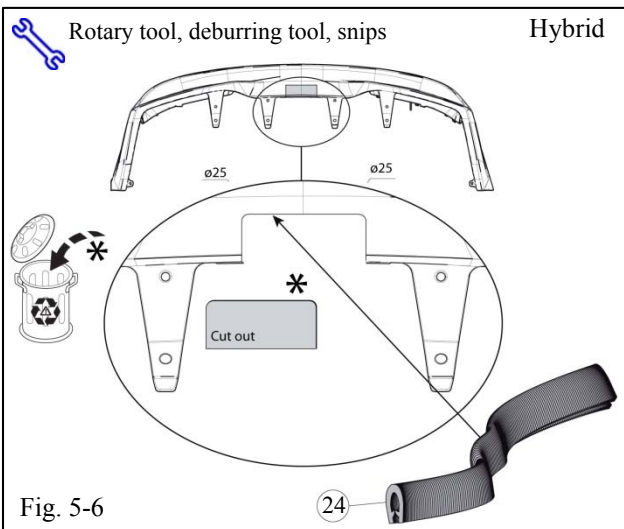
(c) **GAS:** Use a rotary cutting tool to carefully cut out the rear bumper cover (Fig. 5-4).
Deburr the edges after cutting.

⚠ NOTE: Wear safety glasses while cutting.



(d) **HYBRID:** Mark the rear bumper cover for cutting (Fig. 5-5).

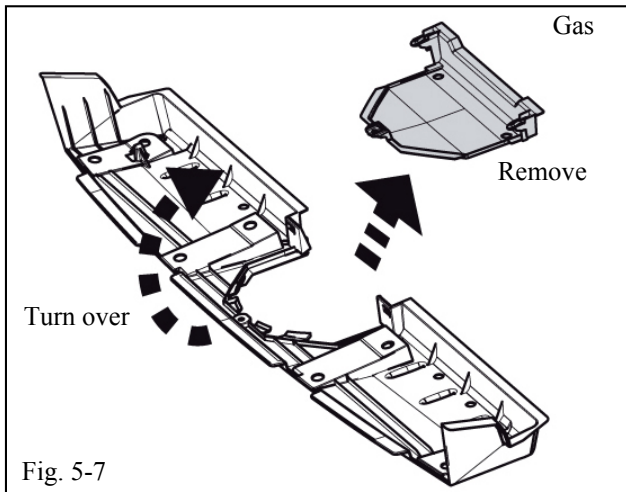
NOTE: The dimensions are in mm.



(e) **HYBRID:** Use a rotary cutting tool to carefully cut out the rear bumper cover (Fig. 5-6). Deburr the edges after cutting.

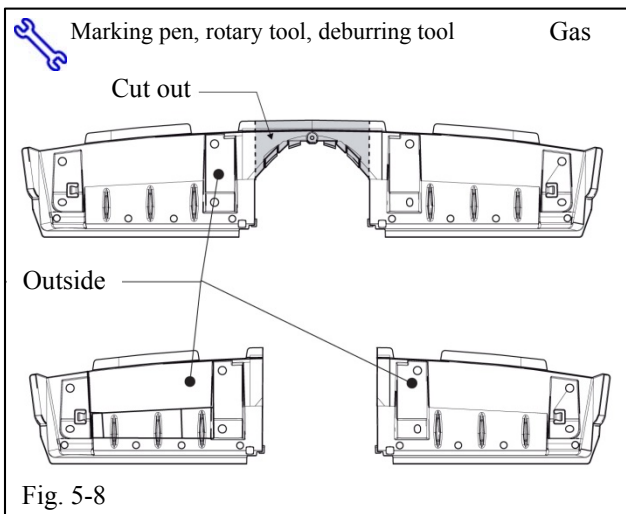
NOTE: Wear safety glasses while cutting.

(f) **HYBRID:** Install the edge trim (Item 24) along the cutout in the rear bumper cover (Fig. 5-6). Cut off any excess trim.



(g) **GAS:** Remove and discard the section indicated in Fig. 5-7.

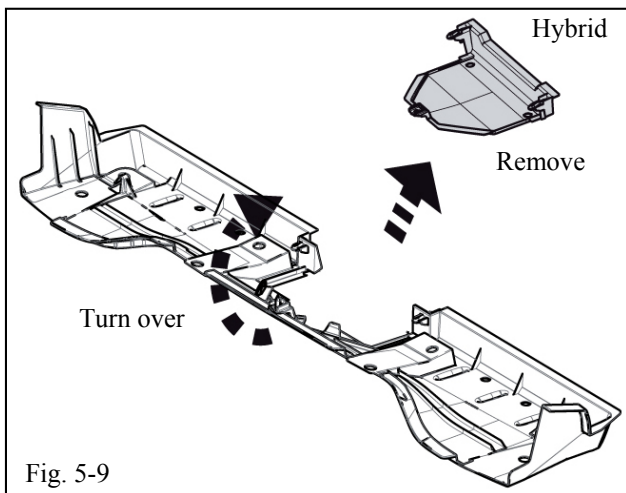
(h) Turn the part over.



(i) **GAS:** Use a rotary cutting tool to remove the center portion of the undercover (Fig. 5-8).

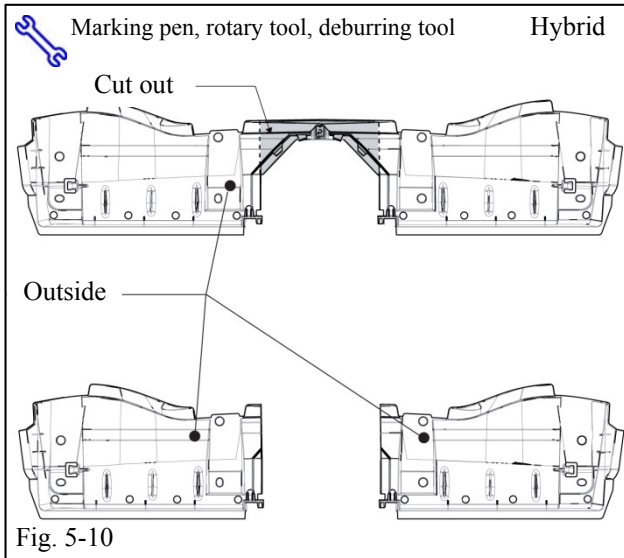
Discard the portion that was cut out.

+ **NOTE:** Wear safety glasses while cutting.



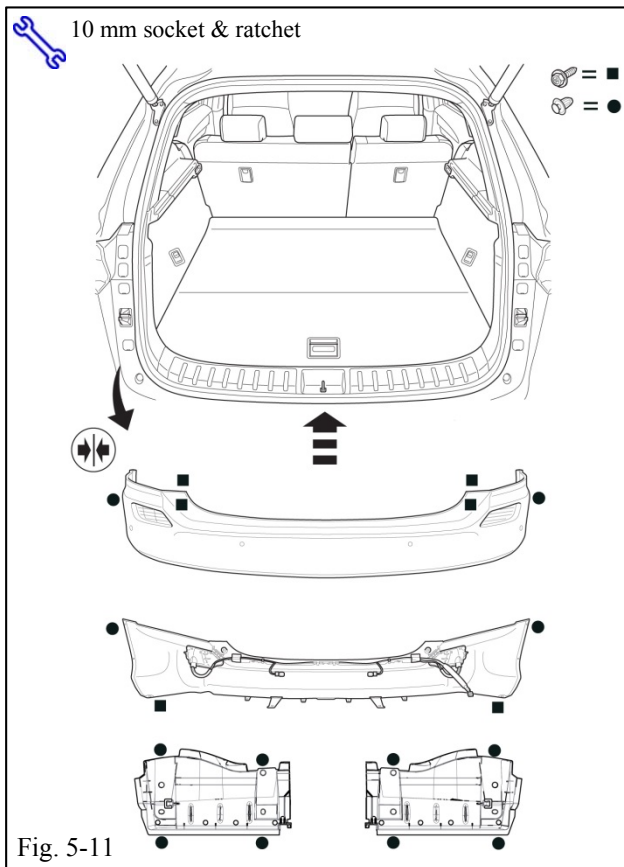
(j) **HYBRID:** Remove and discard the section indicated in Fig. 5-9.

(k) Turn the part over.



- (l) **HYBRID:** Use a rotary cutting tool to remove the center portion of the undercover (Fig. 5-10). Discard the portion that was cut out.

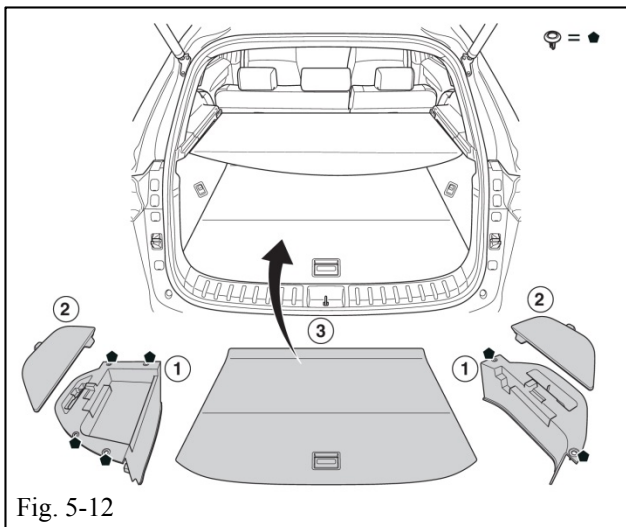
+ **NOTE:** Wear safety glasses while cutting.



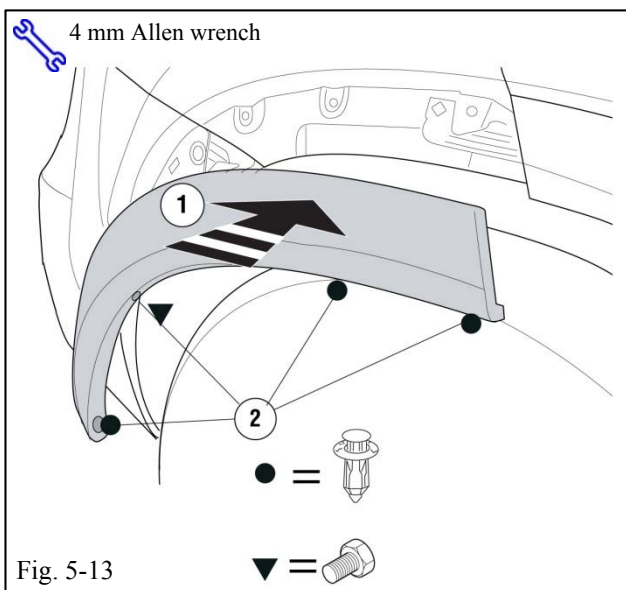
- (m) Reinstall the rear bumper cover removed in Step 3(d) and the modified undercover from the Step 5(h) (Gas) or 5(j) (Hybrid) (Fig. 5-11).

(1) Replace the 12 clips (● Fig. 5-11).

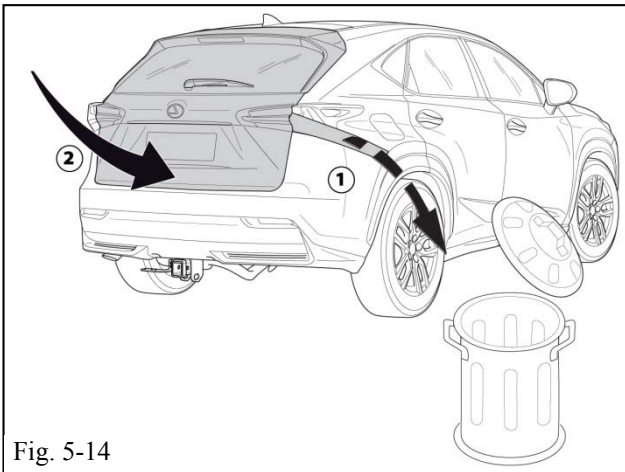
(2) Replace the 6 screws (■ Fig. 5-11).



- (n) Reinstall the rear compartment components removed in Step 3(e) (Fig. 5-12).
- (1) Replace the parts in the order shown (Fig. 5-12).
- (2) Replace the 6 clips (■ Fig. 5-12).



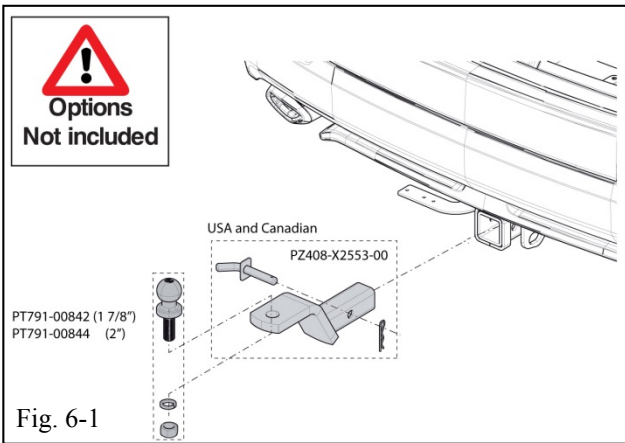
- (o) Reinstall the LH and RH fender flare trim removed in Step 3(b) (Fig. 5-13).
- (1) Replace the 3 clips and the Allen head bolt on each side (Fig. 5-13).



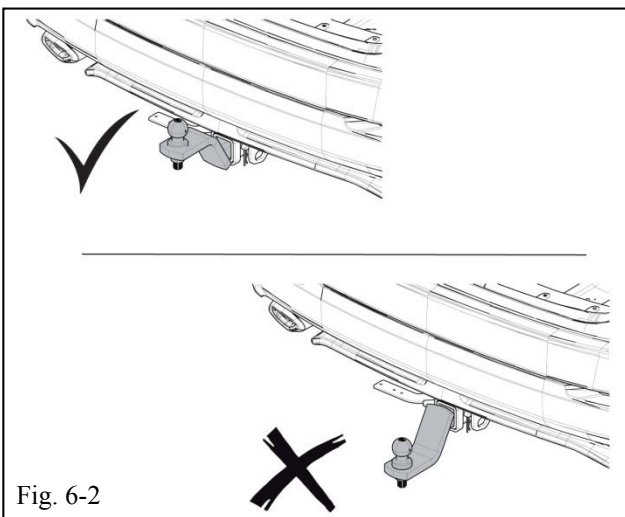
- (p) Remove the tape applied in Step 3(a) and close the lift gate.
- (q) Place the hitch plug and instructions in the glove compartment.
- (r) Clean up and remove any trash.

6. Install the Tongue and Ball.

- (a) The tongue and ball are not included with the kit. Fig. 6-1 shows the part numbers needed.



- (b) When installing the tongue, ensure it is done correctly, with the tongue turning upwards (Fig. 6-2).



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

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <ul style="list-style-type: none"><input type="checkbox"/> Check visual alignment<input type="checkbox"/> Hitch plug<input type="checkbox"/><input type="checkbox"/>	<p>No visible gaps between mating parts</p> <p>Verify hitch plug is in glove compartment</p>
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none"><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/>	
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>