

Genuine Accessories



Vehicle Model: **Palisade**

Model Year 2020~
 Part No. S8F67 AC400
 Language English
 Rev. Date 5/2/2019

Accessory: **Tow Hitch Harness**

Difficulty: (B)

Note: Difficulty stated above reflects the minimum level of expertise required to install the accessory:
 (A) Customer
 (B) Dealer Technician
 (C) Master Technician or Specialist

Electronic Installation Instructions

If this is a printed copy of the installation instructions, ensure you have the latest revision by scanning the QR code or by entering the website address listed below before beginning installation. Use the latest revision date as noted by "Rev. Date" above.

www.hyundaiaccessories.com/admin_media_uploads/installationSheets/s8f67_ac400.pdf

Application Notes

The Installation Instructions below include steps for Tow Hitch Harness and Tow Hitch installation procedure. Pay special attention to the upper right corner symbol " of each step if not installing both accessories jointly.

Instructional Symbols / Definitions

Denotes warnings that may lead to serious physical injury or vehicle damage Denotes cautions to be taken to avoid physical injury or electronic component damage Denotes cautions to be taken to avoid vehicle and component damage	Denotes quality processes to be checked prior to moving to the next step Denotes specific tools that are necessary to complete a step <div style="border: 1px solid black; padding: 2px; text-align: center; width: 20px; margin: 0 auto;">N O T E</div> Denotes important information to be reviewed during the step	Denotes personal protective equipment (PPEs) that may be required for a step. Examples of safety equipment icons noted below: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Glasses </div> <div style="text-align: center;"> Gloves </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Mask </div> <div style="text-align: center;"> Hearing Protection </div> </div>
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Basic Required Tools

Ratchet	10mm Deep Well Socket	Torque Wrench
Clip Removal Tool	Wire Cutter	

Specialty Required Tools

Vehicle Lift	12V Tester OR Volt Meter

Part Weight (Gross)

0.85	lbs
0.39	kg

FMVSS 110 Compliance Information

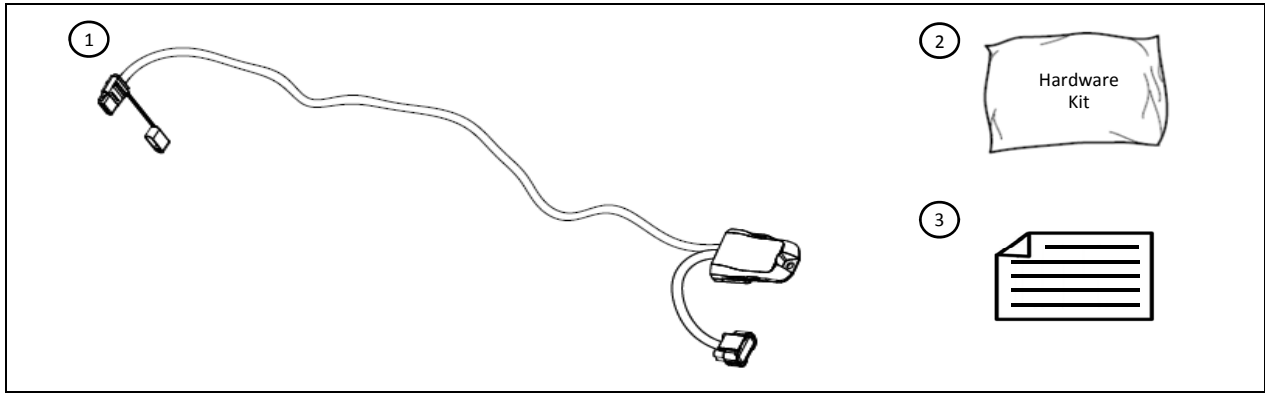
All dealers must determine if the Net weight they have added in the form of all options or accessories, when added to the weight of all Port/Dealer Installed options or accessories, exceeds the lesser of 1.5% of GVWR or 100 lbs. If the additional weight does exceed the lesser of the indicated thresholds, a "Load Carrying Capacity Reduced" label must be installed. A black, fine-point, indelible marker must be used to write by hand onto the label, the reduced carrying capacity in kilograms or pounds, which is the total weight of all added options and accessories.
Load Label Part Number: NP070 - 09003

Notes to the installer:

- 1) Read the entire Installation Instructions prior to beginning the installation of this accessory.
- 2) Make sure the vehicle is completely clean and dry in the area(s) the part is to be installed.
- 3) Ensure the vehicle is properly protected in the area(s) that the accessory is to be installed.
- 4) NEVER place tools on painted surfaces, seating surfaces, dash pad, console or floor carpet/mats.
- 5) Always wear appropriate personal protective equipment, including gloves, safety glasses, etc., when required.
- 6) Roll down the driver's window and adjust the power seats (if applicable) prior to disconnecting battery power, if needed.
- 7) Record radio presets prior to disconnecting battery power, if needed.
- 8) Vehicle should be at room temperature.


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Kit Overview



No.	Qty	Description
1	1	Tow Hitch Harness
2	1	Hardware Kit
3	1	Caution Card

Hardware Overview

A	
9	Cable Tie*

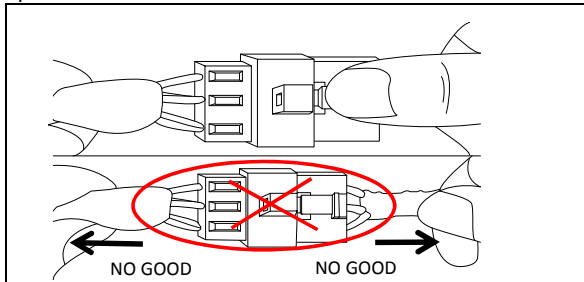
* Indicates extra components intentionally included in kit as spares.
Follow instructions for proper placement of each component.

Hardware Total
9

Radio Presets - record customer preset frequencies if disconnecting battery power

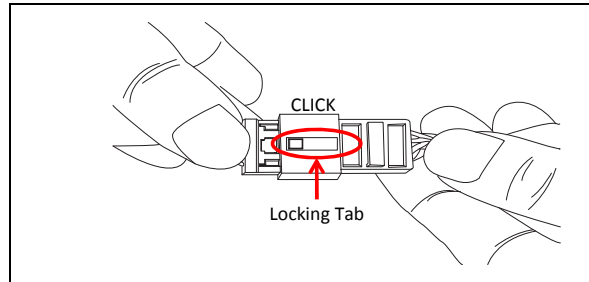
FM1 _____	FM2 _____	FM3 _____	FM4 _____	FM5 _____
FM6 _____	FM7 _____	FM8 _____	FM9 _____	FM10 _____
AM1 _____	AM2 _____	AM3 _____	AM4 _____	AM5 _____
SAT1 _____	SAT2 _____	SAT3 _____	SAT4 _____	SAT5 _____

Special Instructions



Disconnecting Connectors



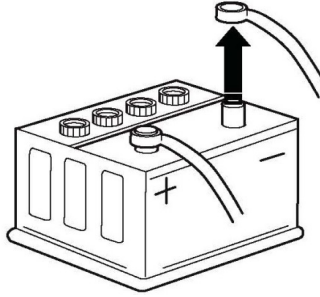


When disconnecting connectors, grasp the connectors, not the wire.



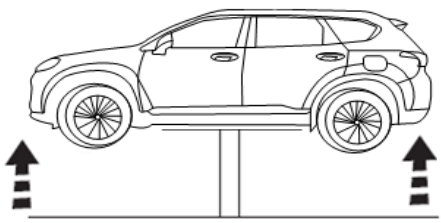





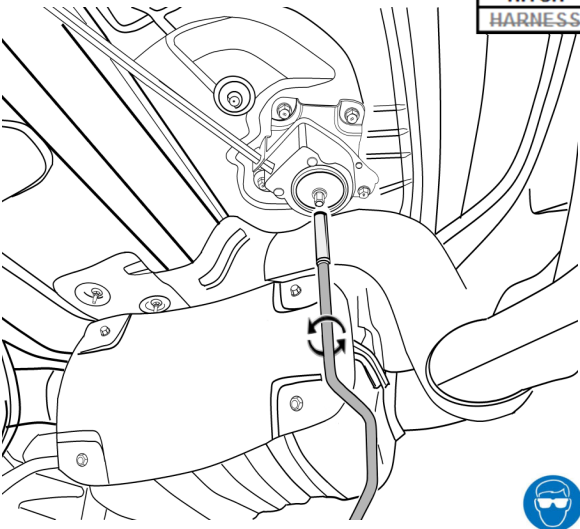

Locking Connectors


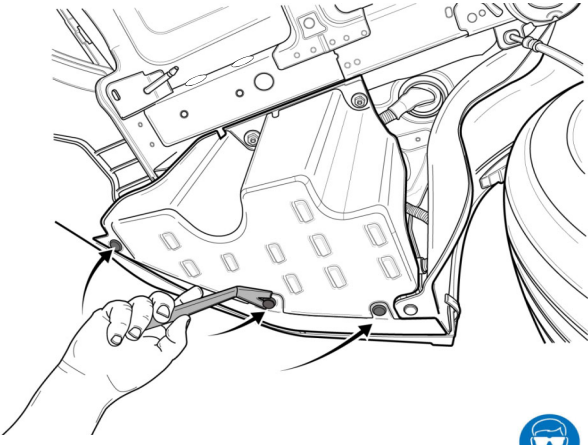

When locking connectors, listen for a click indicating they are securely locked.

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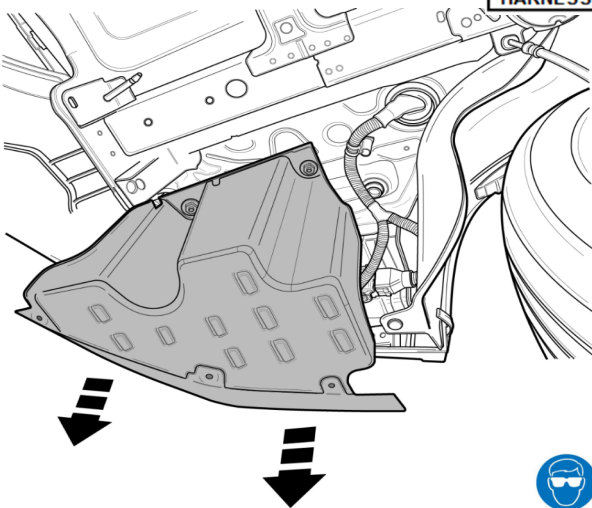

1	 Ratchet, 10mm Deep Socket and Vehicle Lift	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> HITCH HARNESS </div>
 <p>Tow Hitch <u>Harness</u> Installation Procedure ONLY</p>		
		
		
N O T E	<p>A. Position the vehicle on a vehicle lift. B. Record any pre-set radio stations (if applicable). C. Open the vehicle's hood. D. Remove the Cap from Negative (-) Battery Cable, if applicable. E. Disconnect and isolate the vehicle's Negative (-) Battery Cable. F. Raise vehicle to desired working height to access the under body at the rear bumper.</p>	
 <p>Warning! Shock Hazard. Do not touch vehicle's negative battery cable to the vehicle's positive battery cable. Serious injury and damage to the vehicle may occur. WARNING: Comply with vehicle lift manufacture's instructions and safety when using the lift.</p>		


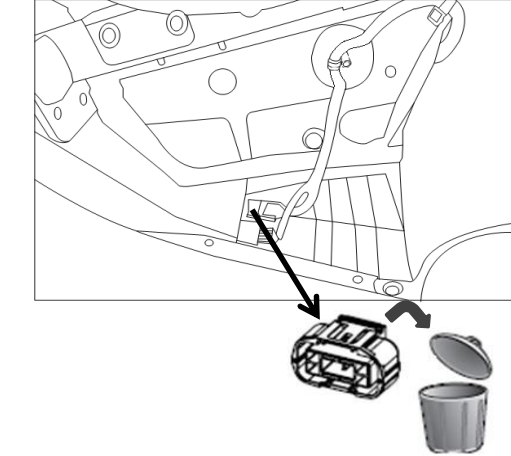


2	 Vehicle Lift	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> HITCH HARNESS </div>
 <p>Tow Hitch Installation Procedure ONLY</p>		
		
		
N O T E	<p>A. Position the vehicle on a vehicle lift. B. Raise vehicle to desired working height to access the under body at the rear bumper.</p>	
 <p>WARNING: Comply with vehicle lift manufacture's instructions and safety when using the lift.</p>		


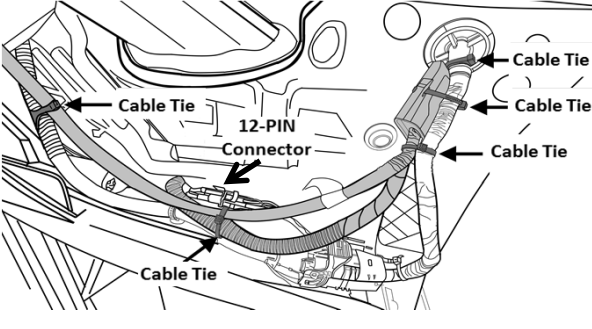


3	 Speed Wrench and 3/8" Deep Socket	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> HITCH HARNESS </div>
		
		
N O T E	<p>A. Using a speed wrench and 3/8" socket, lower and remove the spare tire by loosening the spare tire carrier nut as shown. B. Store the spare tire in a safe location for reinstallation.</p>	


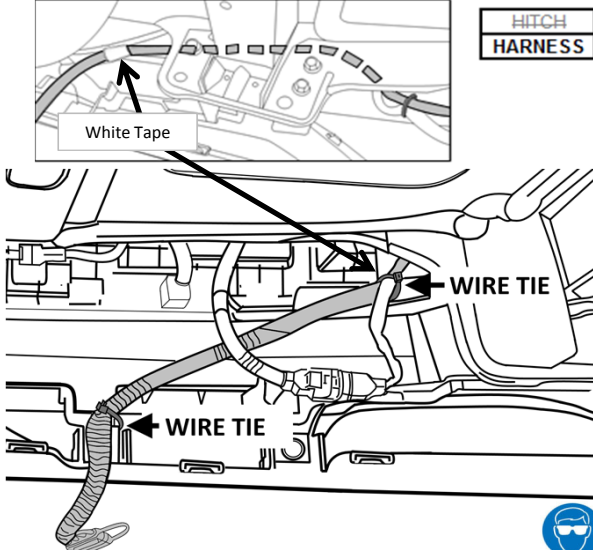


4	 Clip Removal Tool	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> HITCH HARNESS </div>
		
		
N O T E	<p>A. Using a clip removal tool, remove the three (3) lower plastic push clips on the driver side plastic cover. B. Store the three (3) plastic push clips in a safe location for reinstallation.</p>	

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5		HITCH HARNESS
		
NOTE	<p>A. Dislodge and remove the driver side plastic cover panel by pulling straight down.</p> <p>B. Ensure the two (2) upper plastic clips detach with the side plastic cover panel. If necessary, remove the two (2) upper plastic clips by hand.</p> <p>C. Store the removed parts in a safe location for reinstallation.</p>	
		

6		HITCH HARNESS
		
NOTE	<p>A. Locate the factory 12-Pin harness with connector protective cover on the driver's side rear quarter panel area.</p> <p>B. Remove connector protective cover and discard.</p>	
		
 CAUTION! Make sure connector is clean and free of any debris.		

7		HITCH HARNESS
		
NOTE	<p>A. Connect Tow Hitch Harness 12-Pin Connector to the vehicle factory connector as shown.</p> <p>B. Secure the module to the vehicle factory harness, as shown, by passing one (1) cable tie through the side tabs of the module, one (1) cable tie through the hole at the end of the module and one (1) cable tie at the base of the module. Trim excess cable tie material.</p> <p>C. Using two (2) cable ties, secure the Tow Hitch Harnesses to the vehicle factory harnesses as shown but do NOT fully tighten the cable ties at this time.</p>	
		
 Ensure the Connector is fully engaged and locked in place.		

8		HITCH HARNESS
		
NOTE	<p>A. Route the Tow Hitch Harness over the bumper beam behind the rear bumper as shown.</p> <p>B. Note the location of the White Tape surrounding the Tow Hitch Harness.</p> <p>C. Using one (1) cable tie, secure the Tow Hitch Harness to vehicle factory harness at the <u>White Tape</u> location as shown.</p> <p>D. Using one (1) cable tie, secure the Tow Hitch Harness to the bumper bracket as shown.</p> <p>E. Take up any harness slack and tighten the two (2) loose cable ties from step 7. Trim excess cable tie material.</p>	
		
 Ensure the upper cable tie is placed at the White Tape location on the Tow Hitch Harness.		

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9 Exhaust Hanger Removal Tool

HITCH HARNESS

NOTE

A. Using an exhaust hanger removal tool, dislodge the two (2) rearmost exhaust hangers from the rubber holders.

Ensure the exhaust is at room temperature.

10

HITCH HARNESS

FRONT

NOTE

A. Pass the two (2) M12 bolts through the frame on the driver's side to ensure that there are no blockages in the channels.
 B. Repeat the process on the passenger's side using the two (2) 7/16" special bolts to ensure there are no blockages in the channels.

11 M10-1.25 Thread Chaser

HITCH HARNESS

FRONT

NOTE

A. Before installing the hitch, confirm there is no debris or weld spatter in the chassis rail weld nuts. Confirm the four (4) M10 Bolts thread into the four (4) mounting holes of the frame rails.
 B. If needed, use an M10-1.25 thread chaser to clean out the weld nuts.

Do not cross thread the M10-1.25" weld nut threads when chasing them.

12


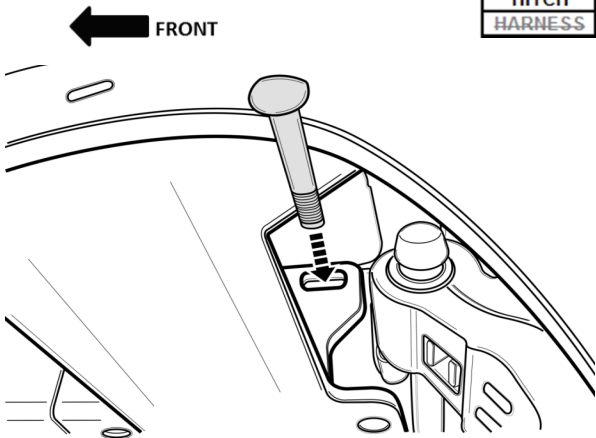

HITCH HARNESS


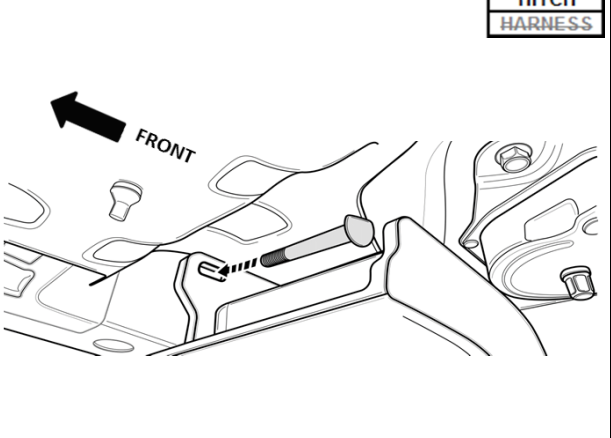

FRONT


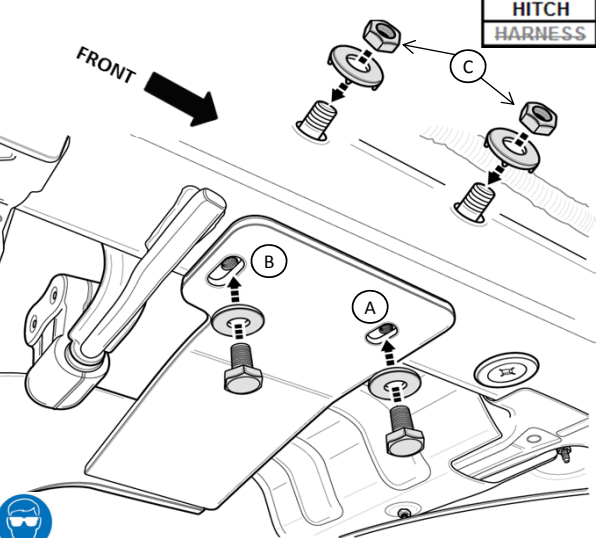

NOTE


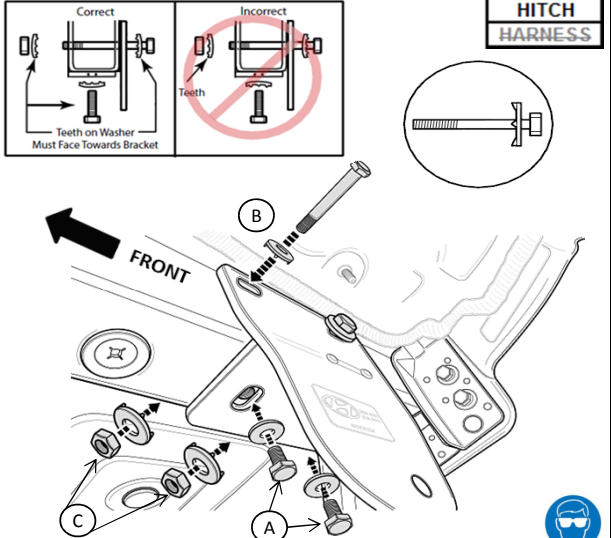

A. Preassemble one (1) M12 bolt with one (1) M12 toothed washer for driver side as shown above. Have a 7/16" special bolt for passenger side ready.
NOTE: Make sure the 'toothed side' of washer is installed facing the hitch.
 B. Raise hitch under vehicle starting with raising the hitch over the muffler on the passenger side.
 C. Insert one (1) M12 bolt with one (1) M12 toothed washer on the driver side, as shown above.

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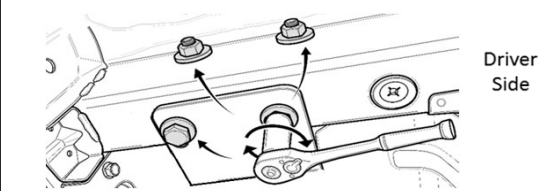
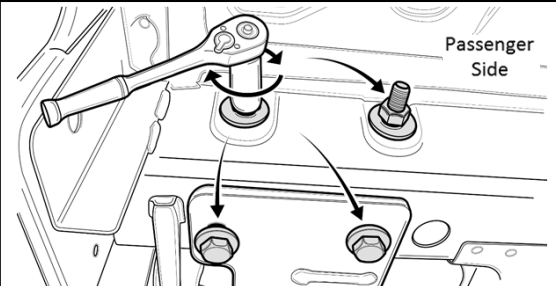
13		HITCH HARNESS
		
		
NOTE	<p>A. Insert one (1) 7/16" special bolt, flat side up, through rear mounting hole in the vertical plate as shown above. Bolt should go fully through the hitch and frame on the passenger side.</p> <p>NOTE: Bolt must be inserted on the inside of the chassis rails. This will hold the hitch in position.</p>	


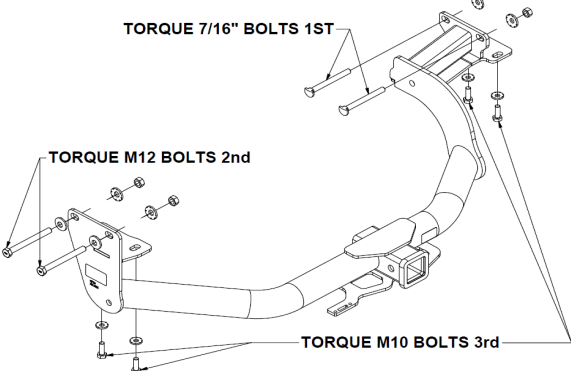

14		HITCH HARNESS
		
		
NOTE	<p>A. Insert one (1) 7/16" special bolt, flat side up, through front mounting hole in the vertical plate as shown above. Bolt should go fully through the hitch and frame on the passenger side.</p>	


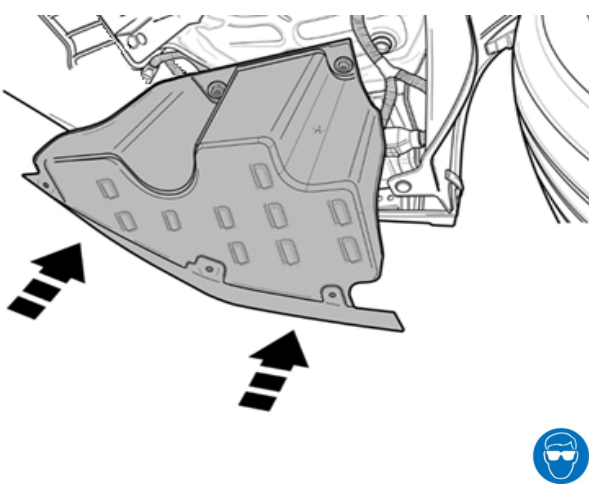
15		HITCH HARNESS
		
		
NOTE	<p>A. Starting on the passenger's side forward Tow Hitch horizontal hole, hand tighten one (1) M10 bolt with one (1) M10 toothed washer into vehicle's weld nut.</p> <p>B. Hand tighten one (1) M10 bolt with one (1) M10 toothed washer into rear vehicle's weld nut.</p> <p>NOTE: Make sure the 'toothed side' on each washer is installed facing the hitch.</p> <p>C. Hand tighten one (1) 7/16" hex nut and one (1) 7/16" toothed washer onto the two (2) bolts as shown.</p> <p>NOTE: Make sure the "toothed side" of the washer is installed against the frame.</p>	


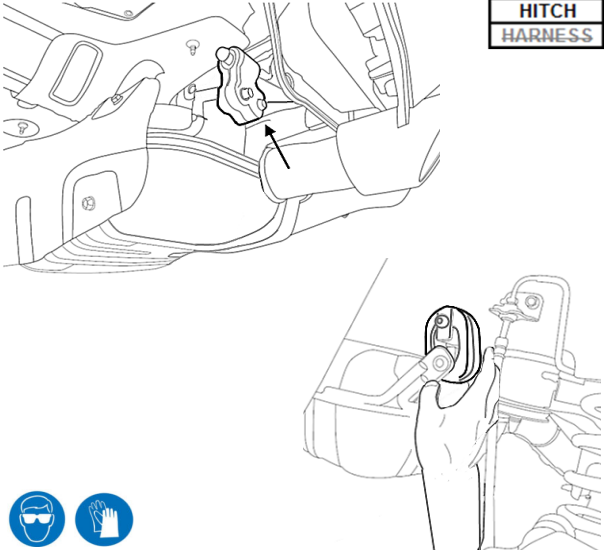
16		HITCH HARNESS
		
		
NOTE	<p>A. Hand tighten one (1) M10 bolt with one (1) M10 toothed washer into the tow (2) vehicle's weld nuts on the driver's side.</p> <p>B. Install one (1) M12 bolt and one (1) M12 toothed washer into remaining upper attachment point on driver's side.</p> <p>NOTE: Make sure the 'toothed side' on the washer is installed facing the hitch.</p> <p>C. Install one (1) M12 hex nut & one (1) toothed washer onto two (2) M12 bolts on driver's side & hand tighten.</p> <p>NOTE: Make sure the "toothed side" of the washers are installed against the frame.</p>	

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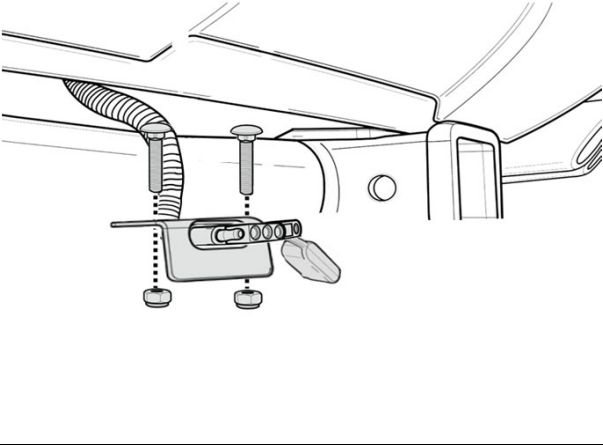
17		Ratchet, Extension, 17mm Socket, 19mm Socket, 19mm Combination Wrench and 11/16" Deep Socket
HITCH HARNESS		
 <p style="text-align: right;">Driver Side</p>		
 <p style="text-align: right;">Passenger Side</p>		
NOTE	<p>A. Tighten the four (4) M10 Bolts until tow hitch makes contact with vehicle's frame. Do NOT torque bolts at this time.</p> <p>B. Tighten the two (2) 7/16" special bolts until nut and washer become snug to vehicle's frame.</p> <p>C. Tighten the two (2) M12 Bolts until nut and washer become snug to vehicle's frame.</p>	


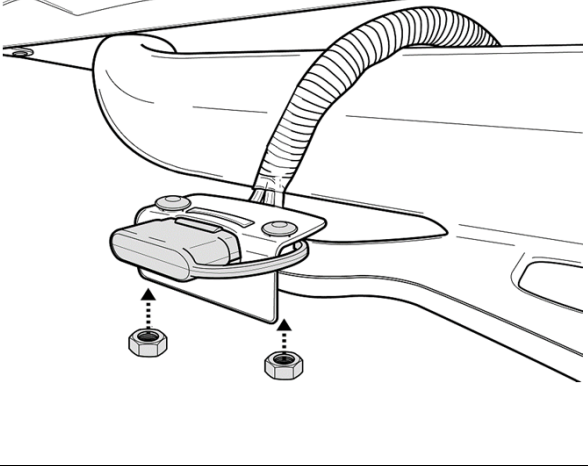
18		Torque Wrench, Extension, 17mm Socket, 19mm Socket, 19mm Combination Wrench, 11/16" Deep Socket & Yellow or White Paint Pen
HITCH HARNESS		
 <p style="text-align: center;">TORQUE 7/16" BOLTS 1st</p> <p style="text-align: center;">TORQUE M12 BOLTS 2nd</p> <p style="text-align: center;">TORQUE M10 BOLTS 3rd</p>		
<p>Bolt Torque Sequence:</p> <ol style="list-style-type: none"> 1) Torque 7/16" bolts to 80 N·m (8.2 kgf·m, 59 lbf·ft) 2) Torque M12 bolts to 107 N·m (10.9 kgf·m, 79 lbf·ft) 3) Torque M10 bolts to 62 N·m (6.4 kgf·m, 46 lbf·ft) 		
NOTE	<p>A. Using an extension, 17mm socket, 19mm socket, 19mm combination wrench, 11/16" deep socket and torque wrench, tighten and torque all of the nuts and bolts following the bolt torque sequence shown above.</p> <p>B. Repeat torque sequence to ensure bolts are tightened properly.</p> <p>C. Use a yellow or white paint pen to mark a line on top of each bolt head. NOTE: The paint line should go across the bolt head and onto the hitch or vehicle.</p>	
 <p>Do NOT over-torque the hardware.</p>		


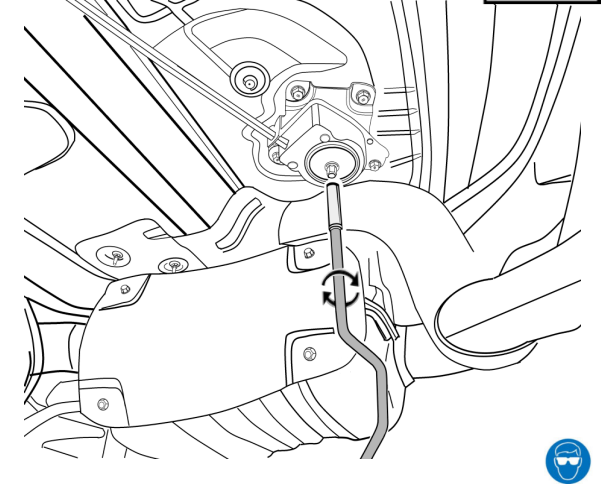

19		
HITCH HARNESS		
		
NOTE	<p>A. Reinstall the driver side plastic cover panel by aligning the upper plastic clips and pushing straight up.</p> <p>B. Reinstall the three (3) lower plastic push clips.</p>	


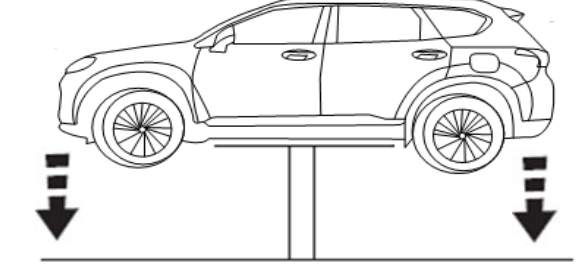

20		
HITCH HARNESS		
		
NOTE	<p>A. Reinstall the two (2) rubber muffler mounts back onto their brackets.</p> <p>B. Ensure they are fully seated back into their original position.</p>	

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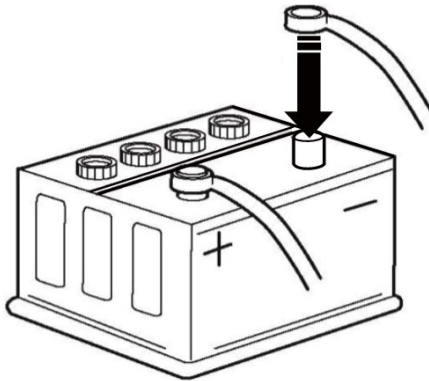

21		Ratchet, and 3/8" Socket
HITCH HARNESS		
		
N O T E	<p>A. Insert the Tow Hitch Harness 4-Flat Connector through back side of the 4-Flat Connector Bracket as shown.</p> <p>B. Place two (2) #10 carriage bolts through the top of the 4-Flat Connector Bracket and thread two (2) #10 nylock hex nuts as shown.</p> <p>C. Make sure the Ground Pin is positioned towards the Driver Side of the vehicle.</p>	


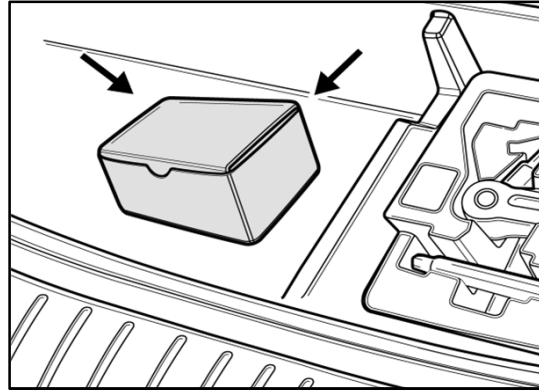
22		Ratchet, Torque Wrench and 3/8" Socket
HITCH HARNESS		
		
N O T E	<p>A. Place the 4-Flat connector and bracket assembly through the hitch bracket so the larger forward detent is located in rectangular slot in the hitch plate.</p> <p>B. Thread two (2) #10 nylock hex nuts to secure the connector bracket assembly to the hitch bracket and torque to: 3.38 N·m (0.35 kgf·m, 30.0 lbf·in). NOTE: Make sure bracket is in the orientation shown above and aligned squarely on the hitch connector bracket.</p> <p>C. Secure the Dust Cover over the 4-Flat connector.</p>	



23		Speed Wrench and 3/8" Socket
HITCH HARNESS		
		
N O T E	<p>A. Using the speed wrench and 3/8" socket, raise the spare tire back into its original position.</p> <p>B. Visually confirm everything is reinstalled back onto the vehicle.</p>	
	Confirm spare tire is secured and seated properly.	

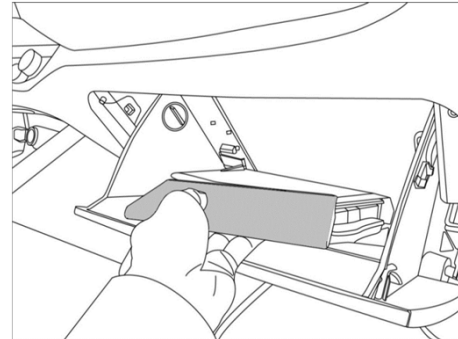
24		Vehicle Lift
HITCH HARNESS		
		
N O T E	<p>A. Lower the vehicle.</p>	
	WARNING: Comply with vehicle lift manufacturer's instructions and safety when using the lift.	

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25	 Ratchet, 10mm Deep Socket and Torque Wrench	<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> HITCH HARNESS </div>
		
		
N O T E	<p>A. Reconnect the Vehicle's Negative (-) Battery Cable, torque to: 5.0 ~ 6.0 N.m (0.5 ~ 0.6 kgf.m, 45 ~ 52 lb-in).</p> <p>B. Reinstall the Cap from Negative (-) Battery Cable, if applicable.</p> <p>C. Close the vehicle's hood.</p> <p>D. Reprogram any pre-set radio stations (if applicable).</p>	






26		<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> HITCH HARNESS </div>
		
N O T E	<p>A. Open tailgate.</p> <p>B. Place box containing the ball mount, hitch pin & clip under cargo floorboard in the cargo storage compartment.</p> <p>C. Close tailgate.</p>	

27	 12V Tester or Volt Meter	<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> HITCH HARNESS </div>
		
N O T E	<p>A. Perform Function Check at the end of these installation instructions with a 12V Tester or Volt Meter.</p>	




28		<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> HITCH HARNESS </div>
		
N O T E	<p>A. Place the Tow Hitch Harness Caution Card into the Glove Box.</p>	

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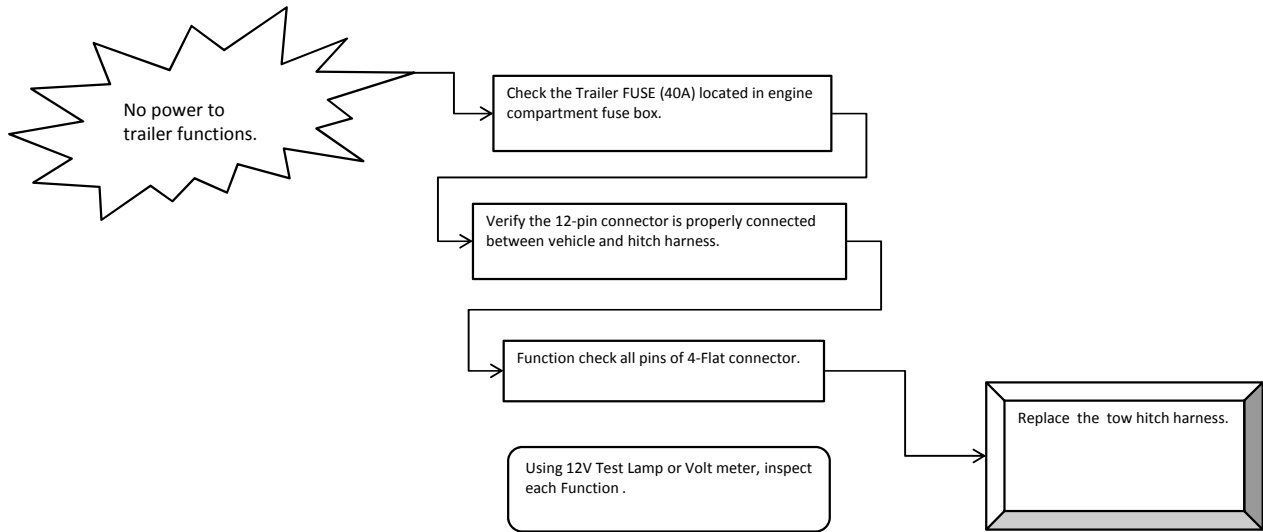
Function Check

Items to be Checked		Result
	Test 4-Pin Tail/Marker Light Circuit.	Tester should illuminate/sound when the Vehicle Tail Lights are activated. Verify Vehicle Lights are functioning normally.
	Test 4-Pin Brake Light Circuit.	Tester should illuminate/sound when the Vehicle Brakes are activated. Verify Vehicle Lights are functioning normally.
	Test 4-Pin Right Turn Light Circuit.	Tester should illuminate/sound when the Vehicle Right Turn Signal is activated. Verify Vehicle Light is functioning normally.
	Test 4-Pin Left Turn Light Circuit.	Tester should illuminate/sound when the Vehicle Left Turn Signal is activated. Verify Vehicle Light is functioning normally.
	Test 4-Pin Hazard Light Circuit.	Tester should illuminate/sound when the Vehicle Hazard Indicator is activated. Verify Vehicle Lights are functioning normally.

Visual Check

Item to be Checked		Result
	12-Pin hitch harness connector is fully inserted into vehicle's factory 12-Pin connector and is locked in place.	Connector is secured.
	Tow hitch harness has been properly secured under the vehicle. There should be no harness slack.	The hitch harness is secured and properly routed.
	Tow hitch harness should be routed as far away from the Exhaust system as possible.	The hitch harness is located minimum 30cm (11.8") from exhaust system.

Troubleshooting



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Wiring Diagram

