

Genuine Accessories



Vehicle Model **Santa Fe**

Model Year **2017-**

Part No. **B8161 ADUP2**

B8161 ADU02

Language **English**

Rev. Date **1/26/2017**

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

Application Notes

Install the Tow Hitch Harness before installing the Tow Hitch.

Instructional Symbols / Definitions



Denotes warnings that may lead to serious physical injury or vehicle damage



Denotes quality processes to be checked prior to moving to the next step

Denotes personal protective equipment (PPEs) that may be required for a step. Examples of safety equipment icons noted below:



Denotes cautions to be taken to avoid physical injury or electronic component damage



Denotes specific tools that are necessary to complete a step



Glasses



Gloves



Denotes cautions to be taken to avoid vehicle and component damage

N
O
T
E

Denotes important information to be reviewed during the step

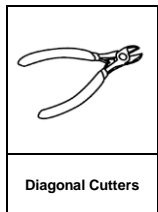
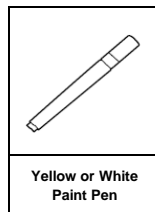
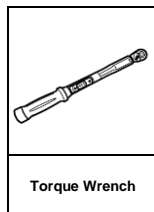
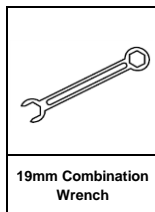
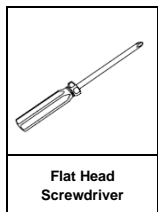
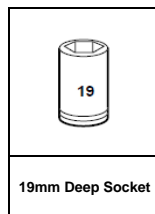
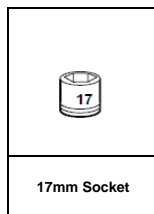
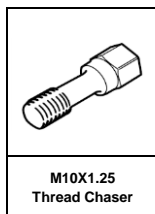
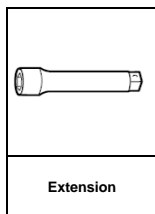
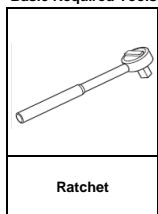


Mask



Hearing Protection

Basic Required Tools



Specialty Required Tools

Vehicle Lift

Part Weight (Gross)

47.90 lbs
21.73 kg

FMVSS 110 Compliance Information

All dealers must determine if the 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.

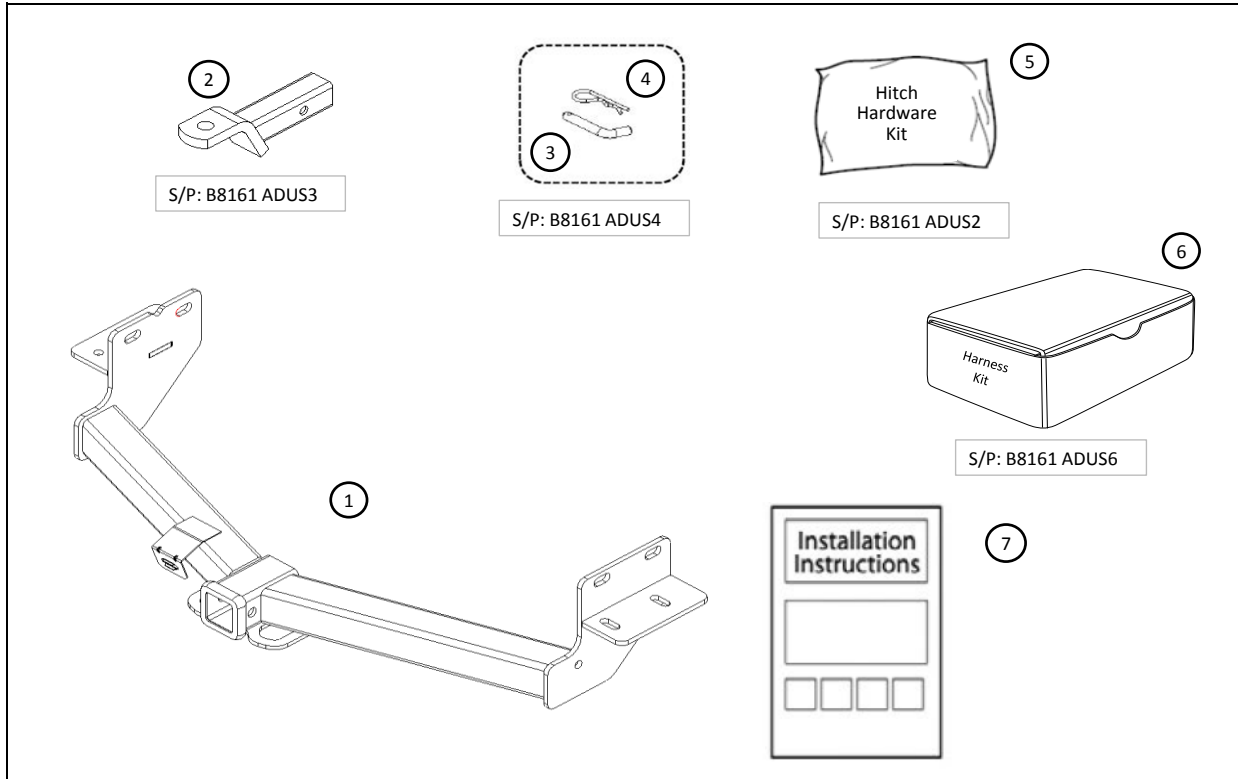
Load Label Part Number: NP070 - 09003

Notes to the installer:

- 1 Read the entire Installation Instructions prior to beginning the installation of the part.
- 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 Record radio presets prior to disconnecting battery power, if needed.
- 7 Ensure the transportation fuse is set to "ON" before starting the install.
- 8 Roll down the driver's window and adjust the power seats (if applicable) prior to disconnecting battery power, if needed.

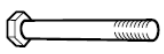




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Kit Overview



No.	Qty	Description	No.	Qty	Description
1	1	Hitch	6	1	Harness Kit
2	1	Ball Mount	7	1	Installation Instructions
3	1	Pin			
4	1	Clip			
5	1	Hitch Hardware			

Hitch Hardware Kit Contents

A		B		C		D		E	
4	M12 x 120 Bolt	4	M10 x 30 Bolt	4	M10 Washer	8	M12 Washer	4	M12 Nut


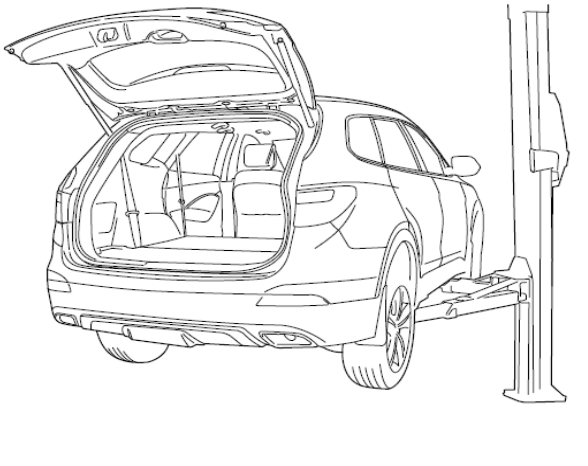


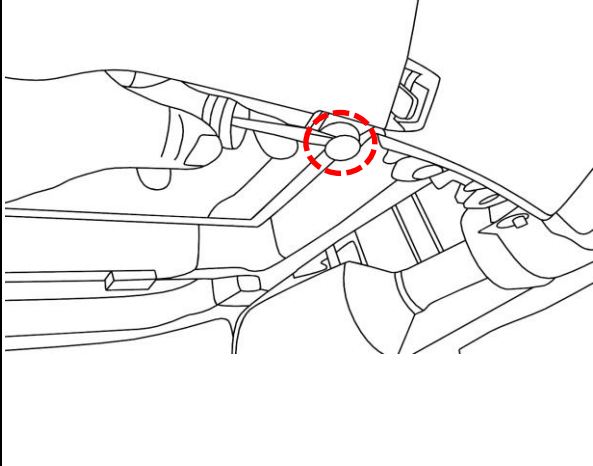
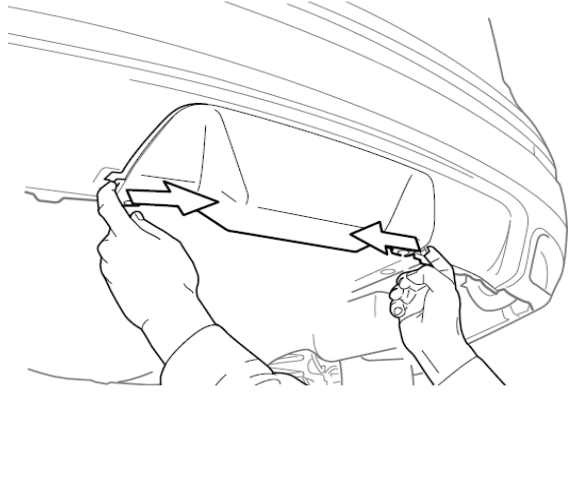

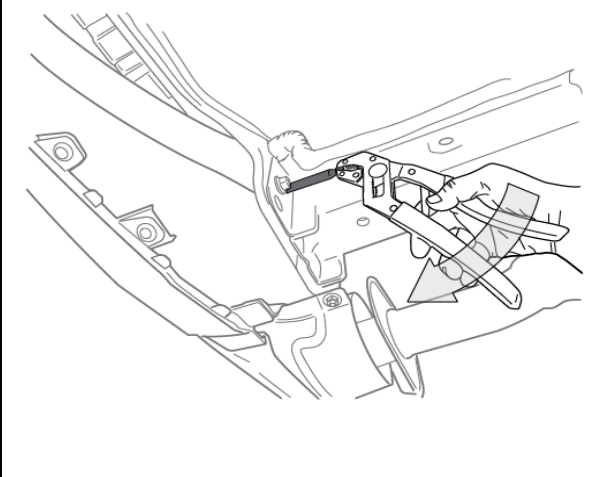
* Indicates extra components intentionally included in kit as spares. Follow instructions for proper placement of each component.

Hardware Total
24


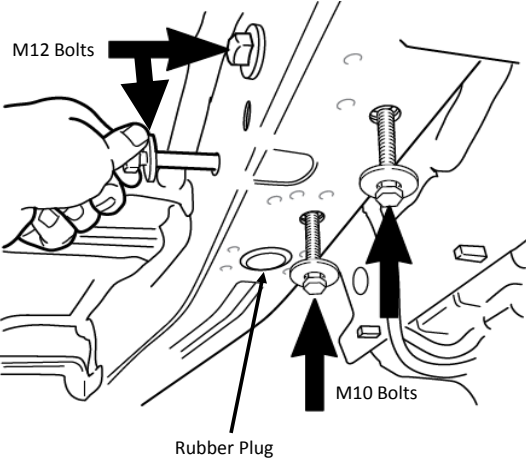
Radio Presets - record customer preset frequencies if disconnecting battery power


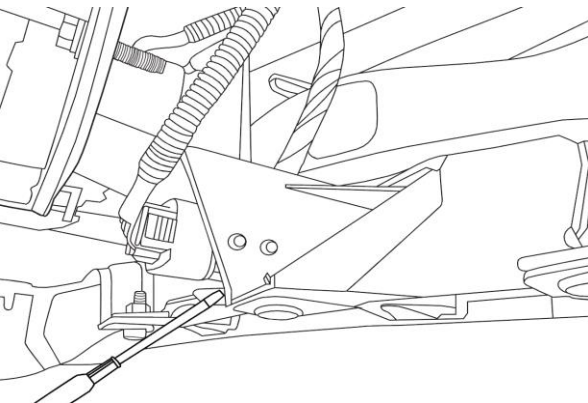
FM1 _____	FM2 _____	FM3 _____	FM4 _____	FM5 _____
FM6 _____	FM7 _____	FM8 _____	FM9 _____	FM10 _____
AM1 _____	AM2 _____	AM3 _____	AM4 _____	AM5 _____
SAT1 _____	SAT2 _____	SAT3 _____	SAT4 _____	SAT5 _____


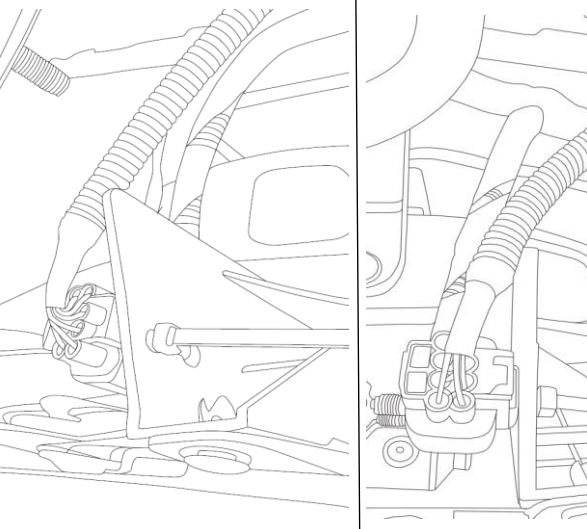
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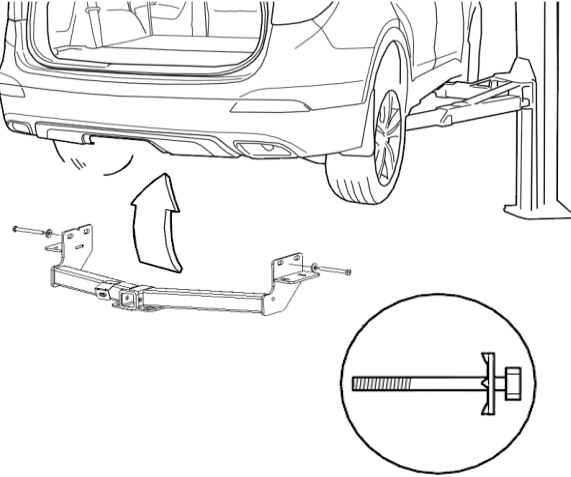

1		Vehicle Lift
		
NOTE	<p>NOTE: If installing the Tow Hitch Harness, skip step 1 of these Tow Hitch installation instructions and follow the steps outlined in the Tow Hitch Harness installation instructions.</p> <ol style="list-style-type: none"> 1. Place vehicle on vehicle lift. Use vehicle lift as needed to work underneath the vehicle. 2. From inside the cargo area, use the vehicle lug nut wrench to turn the spare tire hanger bolt counterclockwise one (1) revolution, loosening the spare tire. Spare tire removal not necessary. 3. Use the lift to raise the vehicle. 	
	 <p>WARNING: Adhere to vehicle lift safety standards. NOTE: First time installers may want to remove the spare tire for additional working room.</p>	
2		Flat Head Screwdriver
		
NOTE	<ol style="list-style-type: none"> 1. Using a flat head screwdriver, remove the two (2) plastic push pins from the cover panel as shown. 2. Set (2) plastic push pins aside for later re-installation. 	
3		
		
NOTE	<ol style="list-style-type: none"> 1. Press the two (2) tabs inward to remove cover panel. 2. Set panel aside for later re-installation. 	
4		Channel Locks
		
NOTE	<ol style="list-style-type: none"> 1. Using channel locks, bend the end of the driver's side bumper locating pin down approximately 1". 2. Repeat on passenger side. 	

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5		M10 x 1.25 Thread Chaser and Flat Head Screwdriver
 <p style="text-align: center;">M12 Bolts</p> <p style="text-align: center;">M10 Bolts</p> <p style="text-align: center;">Rubber Plug</p>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 5%; text-align: center; font-weight: bold;">N O T E</div> <div style="width: 90%;"> <ol style="list-style-type: none"> 1. Use a flat head screwdriver to remove and discard the two (2) rubber plugs from the driver and passenger side frames. 2. Before installing the hitch, confirm all four (4) supplied M12 bolts completely fit through the side of the frame section. 3. Hand tighten the four (4) M10 bolts into the four (4) mounting holes at the bottom of the frame section to confirm there is no debris or weld spatter in the chassis rail weld nuts. 4. If a bolt does not thread properly through the weld nut, stop and use a M10 x 1.25 thread chaser to clean out the weld nuts. </div> <div style="width: 5%;"></div> </div>		

6		Flat Head Screwdriver
		
<div style="display: flex; justify-content: space-between;"> <div style="width: 5%; text-align: center; font-weight: bold;">N O T E</div> <div style="width: 90%;"> <ol style="list-style-type: none"> 1. If equipped, locate the two (2) Blind Spot Detection (BSD) connectors located at the bottom of the rear bumper beam, on both the driver and passenger sides. 2. Insert a flat head screwdriver between the connector and bumper beam. Pry and remove the two (2) connectors from the mounting locations. </div> <div style="width: 5%;"></div> </div>		

7		Diagonal Cutters
		
<div style="display: flex; justify-content: space-between;"> <div style="width: 5%; text-align: center; font-weight: bold;">N O T E</div> <div style="width: 90%;"> <ol style="list-style-type: none"> 1. Insert one (1) 8" cable tie (from harness kit) through the slot of the BSD connector on the passenger side. Turn connector over and relocate. Insert the zip tie through to the mounting holes on the bumper beam which it was removed from and fasten, as shown. Trim excess cable tie. 2. Repeat process for the driver side Blind Spot Detection (BSD) connector. </div> <div style="width: 5%;"></div> </div>		

8		
		
<div style="display: flex; justify-content: space-between;"> <div style="width: 5%; text-align: center; font-weight: bold;">N O T E</div> <div style="width: 90%;"> <ol style="list-style-type: none"> 1. Preassemble two (2) M12 bolts with two (2) M12 toothed washers as shown. 2. Install the hitch evenly over the chassis rails and insert one (1) M12 bolt and washer assembly on each side of the vehicle. Bolts must be inserted on the outside of the chassis rail and pass completely through the other side. Two (2) people are recommended for installation. 3. This will hold the hitch in position for the next step. </div> <div style="width: 5%;"></div> </div>		
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 5%; text-align: center;">  </div> <div style="width: 90%;"> <p>WARNING: Make sure the 'tooth side' on each washer is installed facing away from the bolt head as shown.</p> </div> <div style="width: 5%;"></div> </div>		

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9		Ratchet, Extension, 17mm Socket, 19mm Deep Socket, and 19mm Combination Wrench
<div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Driver Side</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Correct</p> </div> <div style="text-align: center;"> <p>Incorrect</p> </div> </div>		
<div style="display: flex;"> <div style="width: 5%; text-align: center; font-weight: bold;">NOTE</div> <div style="width: 95%;"> <ol style="list-style-type: none"> 1. Pre-assemble two (2) M10 washers with two (2) M10 bolts making sure the 'toothed side' on each washer is installed facing away from the bolt head. Starting on the driver side rearmost hole, install and HAND TIGHTEN two (2) M10 bolts and washer assemblies through the hitch assembly and into the vehicle frame rail. 2. Next, install two (2) M12 bolt and washer assemblies through the upper attachment point of hitch and through the vehicle frame rail. Install and tighten two (2) M12 washers and two (2) M12 nuts by hand. Make sure the 'toothed side' on each washer is installed facing away from the bolt/washer head. </div> </div>		
<div style="display: flex; align-items: center;"> <p>WARNING: Do not use power tools to install the nuts and bolts. If power tools are used, the nuts and bolts and / or mounting hole threads may be damaged or cross threaded. Make sure the 'tooth side' on each washer is installed facing away from the bolt head as shown.</p> </div>		





10		Ratchet, Extension, 17mm Socket, 19mm Deep Socket, and 19mm Combination Wrench
<div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">Passenger Side</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Correct</p> </div> <div style="text-align: center;"> <p>Incorrect</p> </div> </div>		
<div style="display: flex;"> <div style="width: 5%; text-align: center; font-weight: bold;">NOTE</div> <div style="width: 95%;"> <ol style="list-style-type: none"> 1. Repeat the previous step for passenger side. </div> </div>		
<div style="display: flex; align-items: center;"> <p>WARNING: Do not use power tools to install the nuts and bolts. If power tools are used, the nuts and bolts and / or mounting hole threads may be damaged or cross threaded. Make sure the 'tooth side' on each washer is installed facing away from the bolt head as shown.</p> </div>		

11		Extension, 17mm Socket, 19mm Deep Socket, 19mm Combination Wrench, Torque Wrench and Yellow or White Paint Pen
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Bolt Torque Sequence: 1) M10 Bolts 54 N.m (5.5 Kgf.m, 40 lb-ft) 2) M12 Bolts 107 N.m (10.9 Kgf.m, 79 lb-ft) </div>		
<div style="display: flex;"> <div style="width: 5%; text-align: center; font-weight: bold;">NOTE</div> <div style="width: 95%;"> <ol style="list-style-type: none"> 1. Using an extension, 17mm socket, 19mm deep socket, 19mm combination wrench, and torque wrench, tighten and torque all of the nuts and bolts. Follow the bolt torque sequence as shown above. 2. Use a yellow or white paint pen to mark a line on top of each bolt head. 3. The paint line should go across the bolt head and onto the hitch or vehicle. </div> </div>		

12		Extension, 17mm Socket, 19mm Deep Socket, 19mm Combination Wrench, Torque Wrench and Yellow or White Paint Pen
<div style="display: flex;"> <div style="width: 5%; text-align: center; font-weight: bold;">NOTE</div> <div style="width: 95%;"> <p>NOTE: If the tow hitch harness is still being installed, switch back to the harness installation instructions to complete the installation. Be sure to reinstall the cover after the function check has been performed.</p> <ol style="list-style-type: none"> 1. Press the two (2) tabs inward to re-install cover panel. 2. Re-install (2) plastic push pins. 3. Place the ball mount kit, pin and clip under the cargo floorboard in the cargo storage compartment. </div> </div>		

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Visual Check

Item to be Checked		Result	
	Make sure all four (4) M10 1.25 x 30 bolts are torqued to: 54 Nm (5.5 kgf-m, 40 lbf-ft).	All M10 1.25 x 30 bolts are torqued to: 54 Nm (5.5 kgf-m, 40 lbf-ft).	
	Make sure all four (4) M12 1.75 x 120 bolts are torqued to: 107 Nm (10.9 kgf-m, 79 lbf-ft).	All M12 1.75 x 120 bolts are torqued to: 107 Nm (10.9 kgf-m, 79 lbf-ft).	
	Make sure all eight (8) bolts and surrounding tow hitch / chassis rail surfaces are marked using a paint pen.	All eight (8) bolts are marked.	
	Make sure the ball mount box is placed into the spare tire compartment.	The ball mount box is inside the spare tire compartment.	