

Vehicle Model **Model Year** Part No.

Santa Fe & Santa Fe Sport 2013~

2WF58-AQ100

Accessory Difficulty

Windshield Washer Heater

- Accessory Installation

Note: Difficulty stated above reflects the minimum level of expertise required to install

the accessory.

(A) Customer

(B) Dealer Technician

(C) Master Technician

Denotes safety equipment required to be

used such as a mask, safety glasses, gloves,

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.



and hearing protection.













All dealers must determine if the weight they have

options or accessories, when added to the weight of all Port/Dealer Installed

added in the form of all

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:

Hearing Protection

physical injury or electronic component damage.

> Denotes cautions to be taken to avoid vehicle and component damage.

> Denotes cautions to be taken to avoid



Denotes instructional steps necessary to complete the process.

Denotes specific tools that are

necessary to complete the step.

Basic Required Hand Tools



10mm Wrench



Nut Driver







10mm Socket



FMVSS 110 Compliance Information

Part Number: 2WF58-AQ100 2.2 lbs 1.0 kg (Gross Weight)



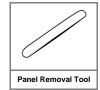
12mm Socket



Tape Measure



Ratchet



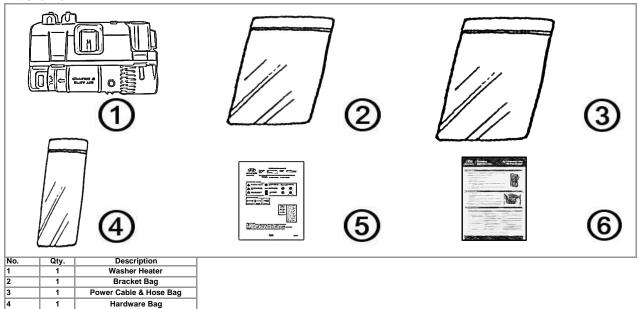


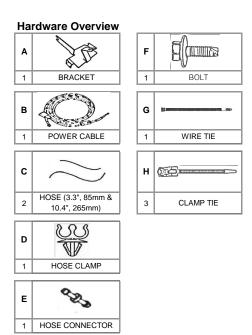
Caution: If the Washer Heater unit has been dropped, the unit may have sustained enough damage to cause the unit to fail and possibly cause damage to other vehicle components.

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 before the accessory is installed.
- 3) Ensure the vehicle is properly protected in the area(s) that the accessory is to be installed.
- 4) To prevent vehicle damage, never place tools on top of painted surfaces, seats, dash pad, console or floor carpet/mats.
- 5) Always wear appropriate safety gear to include gloves and safety glasses when required.

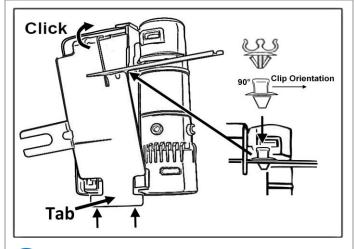
Kit Overview





Installation Instructions
Quick Reference

Hardware Total





1. Disconnect and isolate vehicle's negative battery cable.

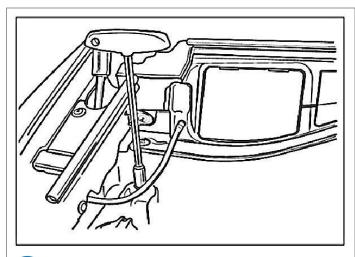
2. Insert the bottom tab of the bracket into the bottom of the Washer Heater as shown.

3. Press the top of the Washer Heater into the bracket until an audible click is heard.

4. Orient and install the provided clip into the bracket as shown.



WARNING! Shock Hazard. Do not touch vehicle's negative battery terminal to vehicle's positive battery terminal. Serious injury and damage to the vehicle may occur.





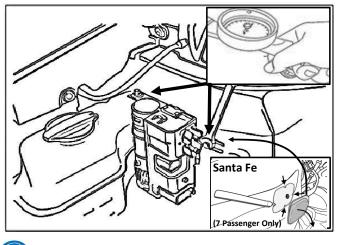
10mm T-Type Nut Driver

1. Open the hood.

2. On the passenger side of the vehicle, loosen (do not remove) the top mounting bolt of the coolant reservoir just enough to slide the Washer Heater bracket into place.



Caution! Be careful not to injure your hands when installing the bracket.





Torque wrench, 10mm Socket, Extension, Panel Removal Tool and 10mm Wrench

1. For installation on Santa Fe 7-passenger vehicles, first remove the Dshaped section of insulation (see inset) to expose the threaded mounting location. Insert panel removal tool and carefully pry around perforated line to separate the section from the rest of the insulator.

2. Install and tighten one (1) provided bolt through the Washer Heater bracket and vehicle as shown. Torque: 10Nm (1.0 kgf, 89 lbs-in.) 3. Tighten the top bolt securing the Washer Heater bracket to the coolant

reservoir as shown. Torque: 10Nm (1.0 kgf, 89 lbs-in.)





Panel Removal Tool

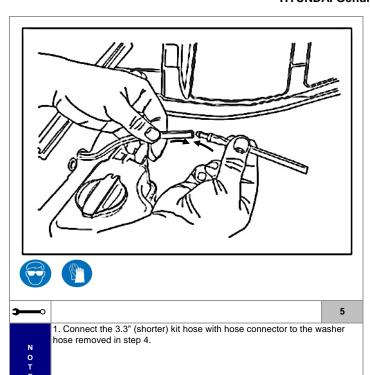
1. On the passenger side of the engine compartment, locate the washer hose on the cowl as shown.

2. Remove the cowl panel (Inset) with a panel removal tool to gain access to the backside of the cowl hose connector.

3, With your right hand hold the cowl hose connector from the inside of the cowl and with your other hand carefully disconnect the engine room side washer hose.

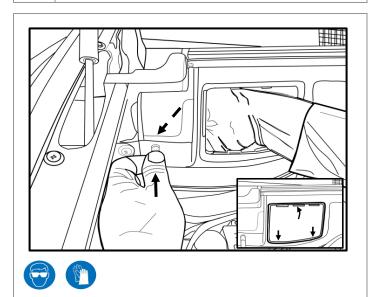


Ensure cowl connector is not damaged during this operation.



1. Connect the open end of the 3.3" (shorter) hose extension to the lower hose connector of the Washer Heater as shown.

Ensure the hose fully seats onto the lower connector of the Washer Heater.



Ensure the hose fully seats onto the kit hose connector.





1. Connect the remaining end of the 10.4" (longer) hose to the upper hose connector of the Washer Heater.

2. Confirm that the two ends of the hose are firmly inserted onto the hose 3. Starting at the base, install the cowl panel back into its original position.

> Ensure the hose fully seats onto the upper connector of the Washer Heater.

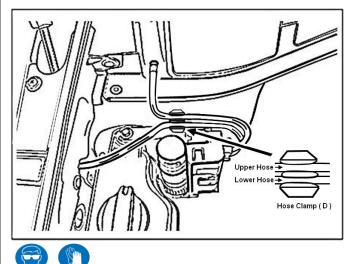
fitting.

Visually confirm both hose ends are fully inserted to prevent leakage prior to reinstalling the cowl panel.

the engine room side washer hose fitting.

1. With your right hand hold the cowl hose connector from the inside of the

cowl and with your other hand carefully insert the 10.4" (longer) hose onto

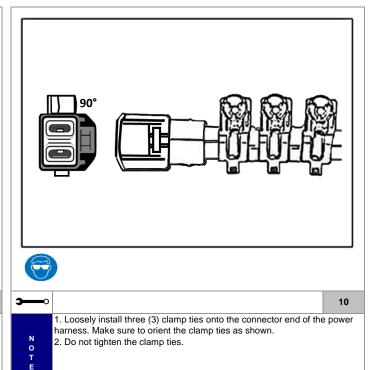


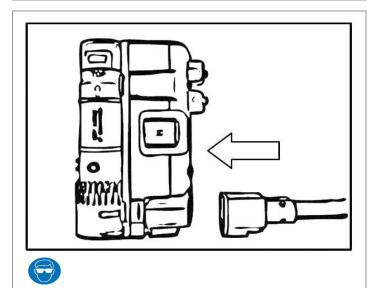
■ Tape Measure

1. Route the lower hose to the clamp and install the hose onto the front clamp location, leaving about 6" (150mm) of hose length from the clamp to the hose connector on the Washer Heater.

2, Route the upper hose to the clamp and install the hose onto the rear clamp location, leaving about 6" (150mm) of hose length from the clamp to the hose connector on the Washer Heater.

Ensure the hose is not pinched at any point after completing this step



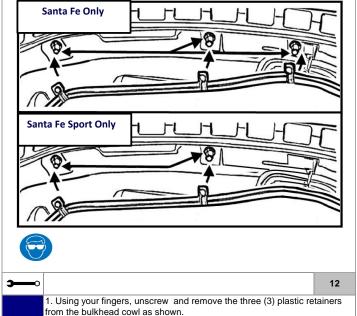


11 1. Connect the power cable to Washer Heater as shown. Make sure you hear an audible click indicating the connector is properly locked into

Visually confirm the connector is fully seated into the Washer Heater before proceeding to the next step.

N O T E

position.



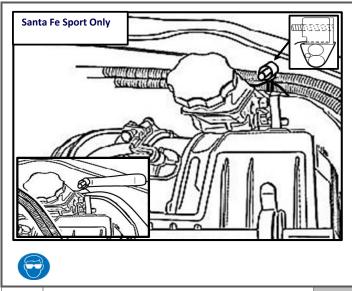
twisted.

2. Discard the retainers.

Confirm which vehicle you are installing onto based on the illustration shown.

2. Tighten the clamp ties and cut the remaining parts of clamp ties.

Route the power harness across the bulkhead cowl and attach the three (3) clamp ties over the studs as shown. Make sure the power harness is not





Side Cutters

Wire Tie **All Vehicle Configurations**

2. Dislodge the clamp tie from the bulkhead cowl and discard. 3. Using the provided clamp tie wrap the kit harness and the brake fluid

reservoir harness as shown in the upper right illustration.

1. Carefully cut off the clamp tie securing the brake fluid reservoir harness.

- 4. Install the Clamp tie into the original position as shown.
- 5. Carefully trim the excess lead of the clamp tie.

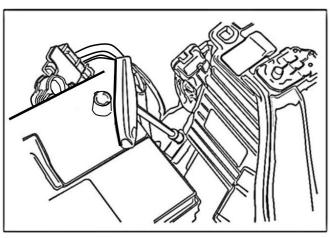


This is for Santa Fe Sport installation application only. Do not perform this on the Santa Fe (7 Passenger) configuration vehicle.

- 1. Route the power harness across the cowl and route it behind the master cylinder as shown. Make sure the power harness is not twisted.
 - 2. Using one (1) wire tie, secure the washer heater harness to the vehicle harness as shown.
 - 3. Use the side cutters to trim the excess wire tie.



Ensure wire tie is cut flush to prevent potential injury from any sharp plastic edge.

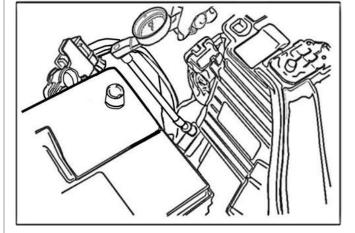




10mm T-Type Nut Driver

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1. Remove and retain the ground bolt for reinstallation in step 16 from the vehicle body panel as shown.





Torque Wrench, Extension, Swivel, and 10mm Socket

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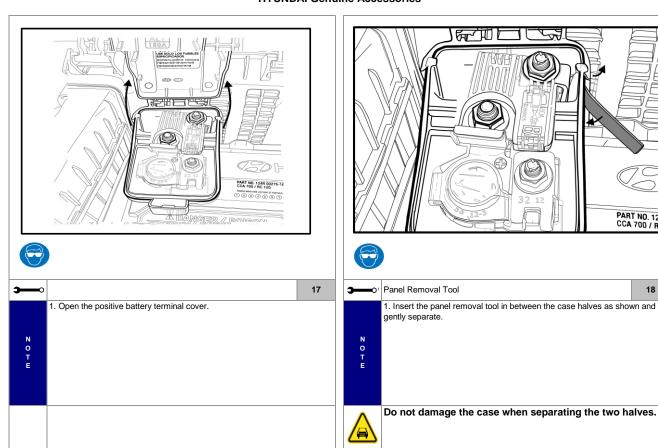
N 0

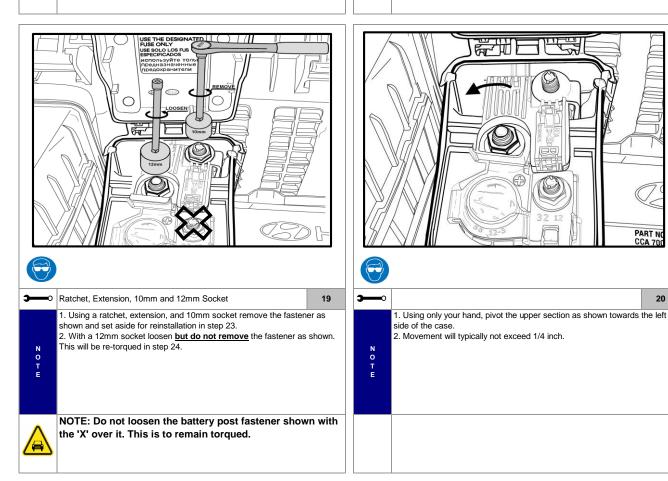
- 1. Install the ground bolt removed in step 15, through the black harness ground eyelet and into the vehicle body as shown. 2. Securely tighten the ground bolt. Torque: 10Nm (1.0 kgf, 89 lbs-in.)
- Ensure the ground eyelet is flush to the vehicle panel and does not move after being torqued.



N 0

Ensure the surface is clean of debris and materials.

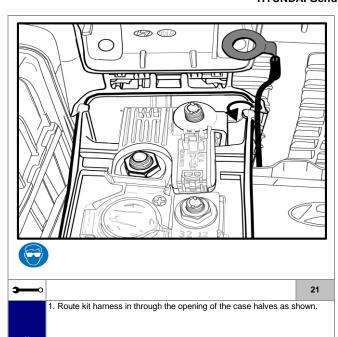


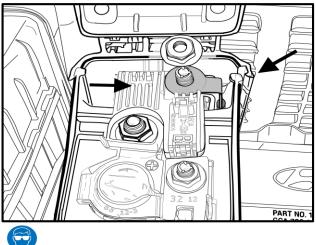


PART NO

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18



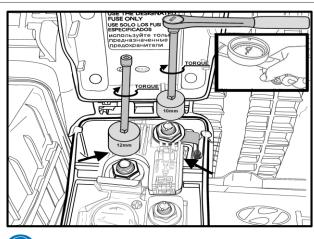


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- 1. Align kit harness over the battery terminal stud and lower as shown.
- Hand tighten the previously removed fastener onto the stud.
- Ensure the kit harness +B eyelet is oriented correctly as shown.
- 4. Close the case halves into their original position.
- 5. Orient the fusible link accordingly.



Do not crush kit wire between fusible link and case.





Torque wrench, extension, 10mm, 12mm

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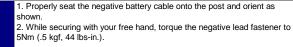
Torque Wrench, Extension, 10mm Socket

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- 1. With your free hand secure the fusible link so it does not move during the torque process at the two arrow positions.
- 2. Install the 12mm socket on the torque wrench and apply 19Nm (1.9 kgf, 168 lbs-in.).
- Install the 10mm socket on the torque wrench and apply 11Nm (1.1 kgf, 97 lbs-in.).
- 4. Close lid.

N O T E

Damage to the fusible link will result if 10mm and 12mm fasteners are over torqued.



Ensure that negative battery cable is properly torqued.



Revision Date 12/17/2013



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- 1. Ensure that the windshield washer fluid reservoir has an adequate amount of windshield washer fluid for testing purposes.
 2. Start engine and wait for 30 seconds.
 3. Operate the windshield washer lever and check that heated washer fluid is
- spraying.



WARNING! Contact with the hot fluid could cause a burn or serious injury.

HYUNDAI Genuine Accessories Function Check

Items To Be Checked		Results Of The Check
✓	When operating washer lever, is washer fluid sprayed?	Washer fluid is sprayed from washer nozzles.
✓	After starting engine and waiting for 30 seconds, is heated washer fluid sprayed when operating washer lever?	Heated washer fluid is sprayed from washer nozzles.

HYUNDAI Genuine Accessories Troubleshooting

	Issue / Concern	Item To Be Checked
✓	Washer fluid is not spraying or pressure is insufficient.	Hose connection is loose or hose is crimped by other components. Make sure wire tie is not too tight. Make sure the nozzle is not clogged. Make sure windshield washer fluid reservoir is full.
\bigcirc	Washer fluid is not hot.	Power Cable connection. Corrosion at positive or negative connections. Blown fuse.
	Abnormal noise.	Check that the unit is properly installed as per the instructions and verify that all included hardware was installed.

HYUNDAI Genuine Accessories Visual Check

Items To Be Checked	Results Of The Check
After installation, no interference with other components of vehicle.	No interference.
No sharp objects near washer hose.	Nothing sharp near the hoses.
Hose connector is fully inserted to washer hose.	Fully inserted.
Washer hose is fully inserted onto washer heater.	Fully inserted.
Power harness connector is fully inserted and locked into washer heater.	Fully inserted and locked.
Power harness is securely fastened by cable tie and clamp ties.	Securely fastened.
Power harness eyelets are securely tightened to battery and vehicle ground.	Securely fastened.

HYUNDAI Genuine Accessories Electrical Schematic

