

Vehicle Model: Santa Fe

Model Year 2019~ Part No. S2F57 AC300 Language English Rev. Date 5/3/2018

Accessory: Remote Engine Start - Key Start

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

Vehicle must be equipped with mechanical key start. Ensure vehicle does NOT have SMART KEY (PUSH BUTTON IGNITION SYSTEM).

Vehicle should be equipped with automatic transmission, power door locks, and power windows. If these features are not equipped on the vehicle, do not proceed with install.

#### 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



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

Denotes specific tools that are necessary

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:









**Basic Required Tools** 



Ratchet



Socket



















Part Weight (Gross) 0.87 0.39

### 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 apacity in kilograms or pounds, which is the total weight of all added options and accessories. oad Label Part Number: NP070-09003

#### **Technical Support**

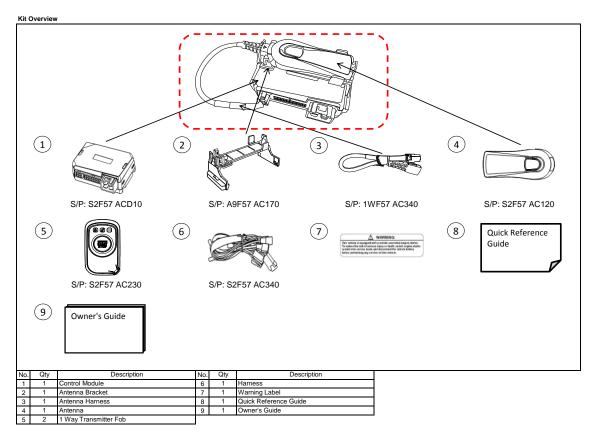


Authorized dealers use: Hours:

(1) 855-225-7344 M~F - 9am~5pm Pacific Standard Time

#### Notes to the installer:

- Read the entire Installation Instructions prior to beginning the installation of the part.
- Make sure the vehicle is completely clean and dry in the area(s) the part is to be installed.
- Ensure the vehicle is properly protected in the area(s) that the accessory is to be installed.
- NEVER place tools on painted surfaces, seating surfaces, dash pad, console or floor carpet/mats. Always wear appropriate personal protective equipment, including gloves, safety glasses, etc., when required
- Record radio presets prior to disconnecting battery power, if needed.
- Roll down the driver's window and adjust the power seats (if applicable) prior to disconnecting battery power, if needed.
- $To \ prevent \ stress \ on \ the \ remote \ start \ wire \ harness, \ \underline{ensure \ the \ tilt \ steering \ column \ is \ fully \ extended \ before \ installing \ the \ kit.}$
- Vehicle should be at room temperature
- The order of the disassembly and reassembly steps have been optimized for maximum efficiency and the correct installation of the Remote Engine Start kit. Disassemble vehicle components (including harness connectors) and install the kit components according to each step, as indicated. Avoid disassembling or reassembling any components in advance to prevent unnecessary labor time and/or installation errors.



#### Hardware Kit Contents



\* Indicates extra components intentionally included in kit as spares.

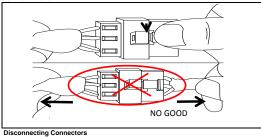
Follow instructions for proper placement of each component.

Hardware Total 9

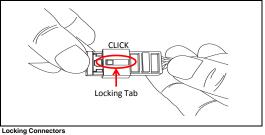
## Radio Presets - record customer preset frequencies if disconnecting battery power

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

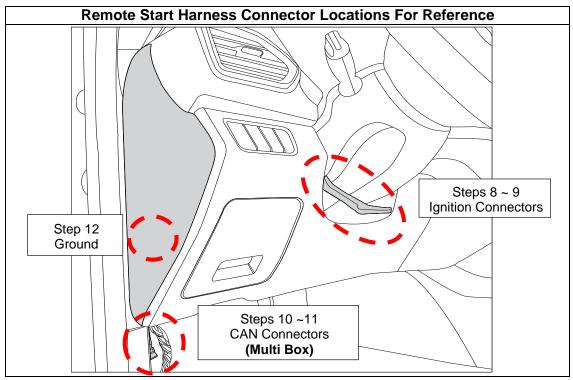
## Special Instructions

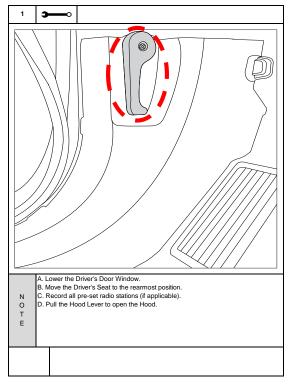


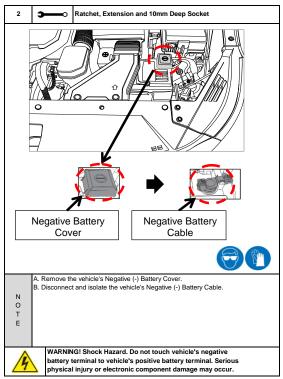
When disconnecting connectors, grasp the connectors, not the wire.

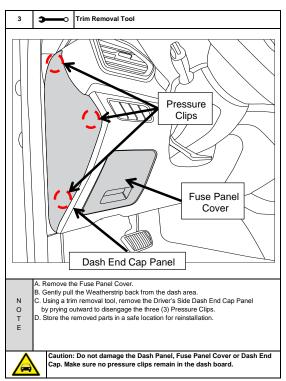


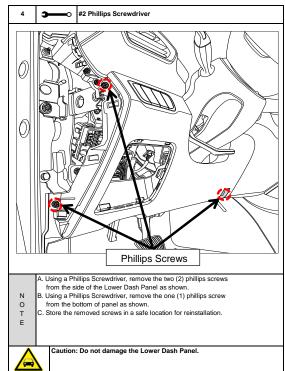
When locking connectors, listen for a click indicating they are securely locked.

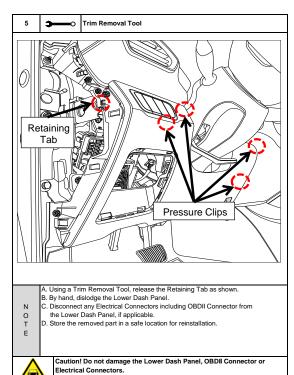


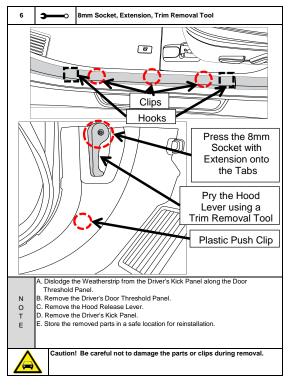


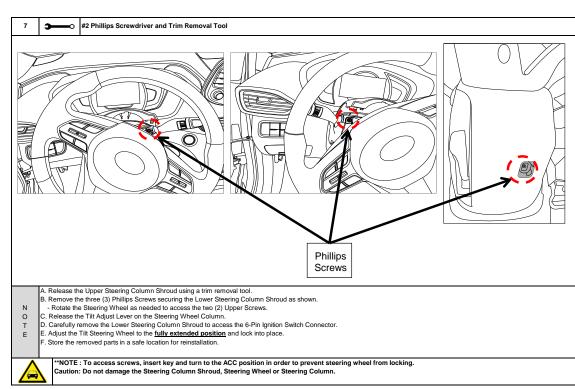


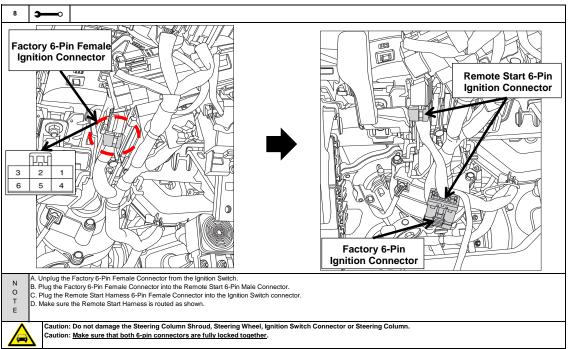


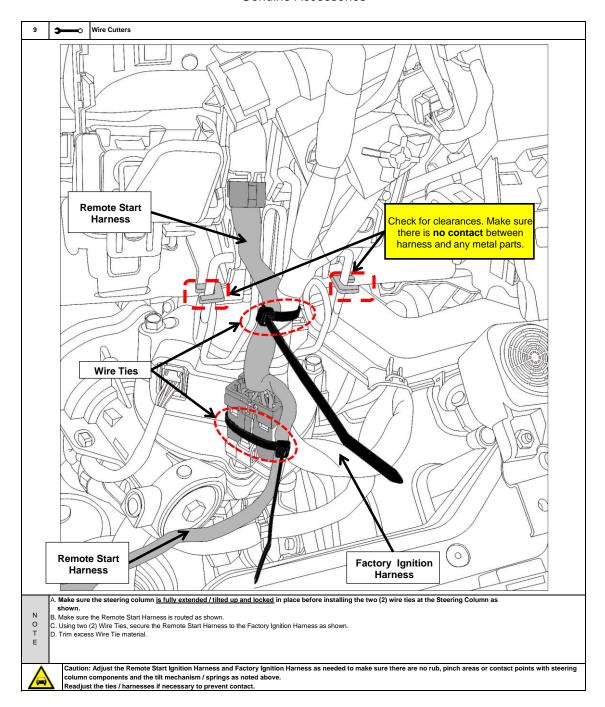




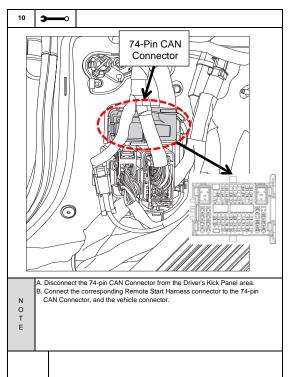


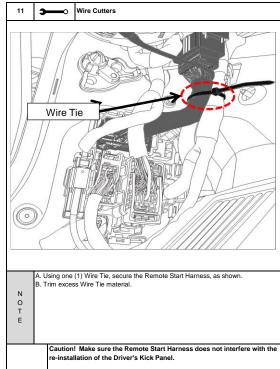


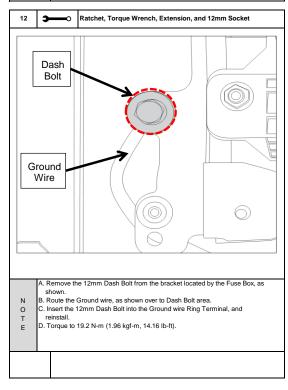


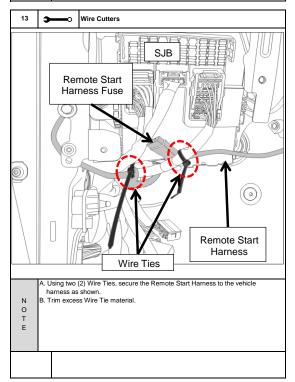


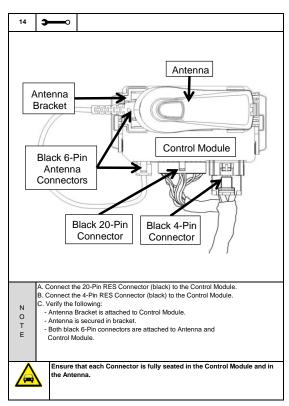
Revision Date 5/03/2018

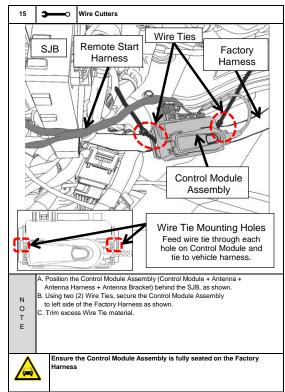


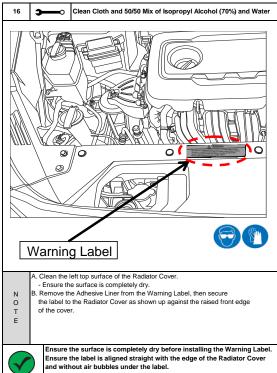


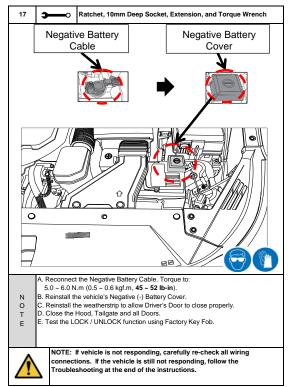


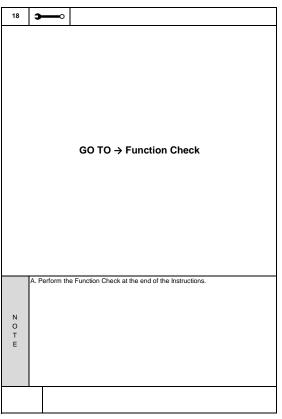


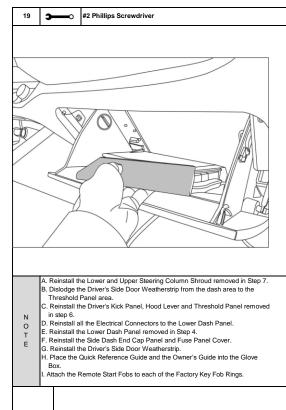


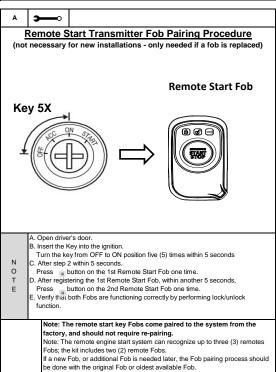










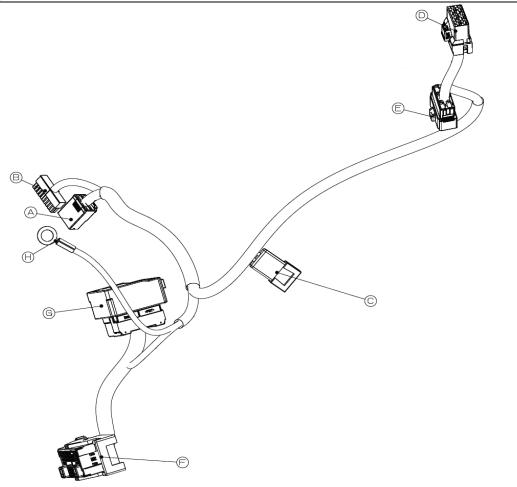


## Function Check

	Items to be Checked	Result	
<b>✓</b>	1. Press  in button one time. (All doors, hood & trunk are closed).	Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK.	
<b>✓</b>	Press  button 2 times.     Press  button 2 more times.	Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and Driver's door will UNLOCK. Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and all doors will UNLOCK.	
	Press  button one time.     Within 3 seconds, press and hold  button for 2 seconds.	Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK. Transmitter Fob KEY icon will flash, the engine will crank and start, the vehicle signal lights will flash.	
<b>✓</b>	While the vehicle is running via remote start,  1. Press  button two (2) times.  2. Press  button two (2) additional times.	Transmitter Fob UNLOCK icon flash, vehicle signal light flashes twice and Driver's door will UNLOCK.  Transmitter Fob UNLOCK icon flash, vehicle signal light flashes twice and All doors will UNLOCK.	
	While the vehicle is running via remote start,  1. Press  ubutton one (1) time.	Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK.	
	While the vehicle is running via remote start,  1. Press brake pedal.	The engine will stop immediately.	
	While the vehicle is running via remote start,  1. Press and hold  button for two (2) seconds.	Transmitter Fob KEY icon will flash, and the engine will stop.	
	While the vehicle is running via remote start,  1. Open the hood.	The engine will stop immediately.	
	While the vehicle is running via remote start,  1. Open any door.	The engine will stop after approximately thirty (30) seconds.	
<b>✓</b>	While the vehicle is running via remote start,  1. Open tailgate/trunk.	The engine will stop after approximately fifty (50) seconds.	

## Troubleshooting

	Issue / Concern	Items to be Checked	
<b>✓</b>	The vehicle does not LOCK by using the Remote Start Key Fob.	Check the vehicle status 1. Engine is OFF. 2. Accessory function is OFF. 3. All doors are closed. 4. Hood and tailgate/frunk are closed.	
<b>✓</b>	The vehicle LOCKS, UNLOCKS, but does not START (no cranking sound).	Ensure the Valet Mode is OFF. (Refer to Owner's Guide for details.) Ensure that the buttons are properly activated. Buttons may not recognize a command if the LED icon light is still flashing. The installation might be faulty. Call Technical Support on Page 1.	
<b>✓</b>	The vehicle LOCKS, UNLOCKS, but does not START and there is CRANKING sound from the engine.	Check that the vehicle battery is not dead. The installation might be faulty. Call Technical Support on Page 1.	
	The remote does NOT LOCK / UNLOCK and does not START the vehicle. The Remote LED lights flash when buttons are pressed.	The Transmitter Fob is not paired to the Control Module. Follow the Remote Start Fob Pairing Procedure in the Installation Instructions.	
	The LED icon lights on the Transmitter Fob does not light up.	The Transmitter Fob batteries are dead. Refer to the Owner's Guide for instructions to change the batteries.	
<b>✓</b>	The Engine turns off when entering the vehicle, while running under Remote Start mode.	Vehicle will shut off automatically after thirty (30) seconds, if key is not in IGN ON position, as noted in the Owner's Guide in the "Driving Off" section.  Verify the key is in the ignition ON position within 30 seconds after opening the doors.  Verify the brake pedal is pressed after the key is in ignition ON position.	
<b>✓</b>	Engine does not turn off immediately when the brake pedal is pressed after starting engine with remote.	Verify Driving OFF Mode after remote starting. Engine does not turn off after Driving Off Mode even when the brake pedal is pressed.	



# A FEMALE 4P Module CONNECTOR

_ <u>\</u>		MAKER KE		Т	신규	C/0
	£15E35	HOUSING	MG6100	47-5		•
Frakan		TERMINAL	ST7302	ST730267-3		•
NO	CIRCUIT NAME	CIRCUIT DES	SPE	EC	RMK	
1	IGN-1	IG2 Out	put	AVSS	0.5	W
2	IGN-2	START	Output	AVSS	0.5	Y
3	IGN-3	IG1 Outs	AVSS	0.5	G	
4	IGN-4	(+12V) E	BATT	AVSS	0.5	R

## (B) FEMALE 20PIN Input/Output CONNECTOR

			MAKER	MOLEX		신규	C/0
	3 5 7 9 H 13 15 17 4 6 9 10 12 14 15 18		HOUSING	43025-	2000(B)		•
			TERMINAL	43030	-0001		•
NO	CIRCUIT NAME	CIF	ROUIT DESC	SPI	ΞC	RMK	
1	(-)GND	G	ND		AVSS	0.5	В
2	(—)GND	G	ND	AVSS	0.5	В	
19	CAN-HIGH	B CAN-H			AVSS	0,22	BR
20	CAN-LOW	В	CAN-L		AVSS	0,22	w

## © 2P FUSE (7.5A)

-				
VO	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC	RMK
1	7.5F-1	To Main	AVSS 0.5	R
2	7.5F-2	To Vehicle	AVSS 0.5	R

## © FEMALE 6P Ignition CONNECTOR

		MAKER	KUM		신규	C/0
	E39E29E19	HOUSING PH776-C		06025		•
	E69E59E49	TERMINAL	MTO25-2	23030		•
NO	CIRCUIT NAME	CIRCUIT DES	SPE	EC	RMK	
2	IGN-2	IG2 Out	put	AVSS	0,5	W
3	IGN-3	START	START Output			Υ
4	IGN-4	IG1 Outr	AVSS	0.5	G	
5	IGN-5	(+12V) E	BATT	AVSS	0,5	R

# © MALE 6P Ignition CONNECTOR

123		MAKER KUM HOUSING PH772-		1	신규	C/0
				-06025		•
١.	456	TERMINAL	MT021-23030			•
NO	CIRCUIT NAME	CIRCUIT DES	SPE	С	RMK	
2	IGN-2	IG2 OUT	JUT	AVSS	0.5	w
3	IGN-3	START (	Dutput	AVSS	0.5	Y
4	IGN-4	IG1 Outp	AVSS	0,5	G	
5	IGN-5	(+12V) E	AVSS	0.5	R	

#### F FEMALE 74P CAN CONNECTOR

F FEMALE 74P CAN CONNECTOR										
		MAKER KE		EΤ	신규	C/0				
		HOUSING	5011-	-0437		•				
		TERMINAL	8240-0345 4011-0047 2005002-1 1-2005001-3			•				
NO	CIRCUIT	NAME	CIRCUIT DESC	SPE	С	RMK				
62	CAN-	-62	B CAN	-L	AV55	0.3	W			
63	CAN-	-63	B CAN-	—н	AVSS	0.3	BR			

# @ MALE 74P CAN CONNECTOR

1	<del>- 101 6</del> 1	h	MAKER	*	ŒΤ	신규	C/0
[		E	HOUSING	502	1-0441		•
Į.		ļ	TERMINAL	8230 1-189 1-189	-5134 -0050 798-3		•
NDC	IRCUIT NAME	CIR	CUIT DESCR	SPE	C	RMK	
62	CAN-62	B CAN-L			AVSS	0.3	W
63	CAN-63		B CAN-H		AVSS	0.3	BR

## (H) Ground Terminal

		60		MAKER	KET	l
				Part No.	ST710286-3	l
NO	CIRCUIT	NAME	CIRCUIT	DESCRIPTION	SPEC	l
1	GND		Ground		and See tiden. Thick Comm	l