

Vehicle Model Sonata

Rev. Date 5/31/2017

Model Year 2018~ Part No. C2F57 AC200 Language English

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

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

equipment icons noted below:

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

damage



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 specific tools that are necessary









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

vehicle and component damage

Denotes cautions to be taken to avoid



Denotes important information to be reviewed during the step

to complete a step

Basic Required Tools





8 mm Socket



10 mm Socket



12 mm Socket



Extension



#2 Phillips











Clip Removal Tool

Technical Support



Authorized dealers use: Hours:

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

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

All dealers must determine if the weight they

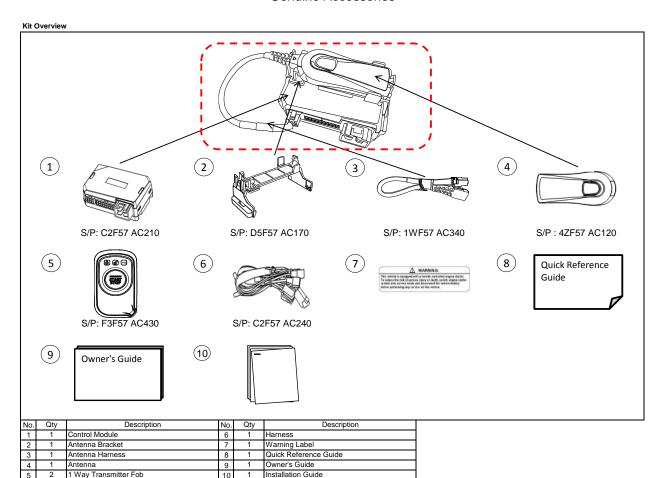
Notes to the installer:

- 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.
- Ensure the transportation fuse is set to "ON" before starting the install.
- 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, ensure the tilt steering column is fully extended before installing the kit.
- 10 Vehicle should be at room temperature.
- 11 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.



Part Weight (Gross)

1.16 lbs 0.53 ka



Har	dware Kit Contents
Α	Ó

1 Way Transmitter Fob

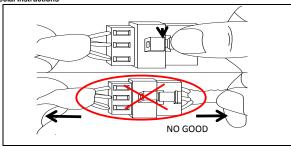
13 Wire Tie* * Indicates extra components intentionally included in kit as spares. Follow instructions for proper placement of each component.

Hardware Total

Radio Presets - record customer preset frequencies if disconnecting battery power

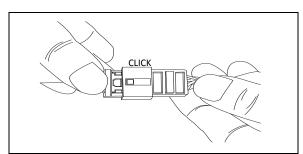
FM1	FM2	FM3	FM4	FM5
FM6	FM7	FM8	FM9	FM10
AM1	AM2	AM3	AM4	AM5
SAT1	SAT2	SAT3	SAT4	SAT5

Special Instructions



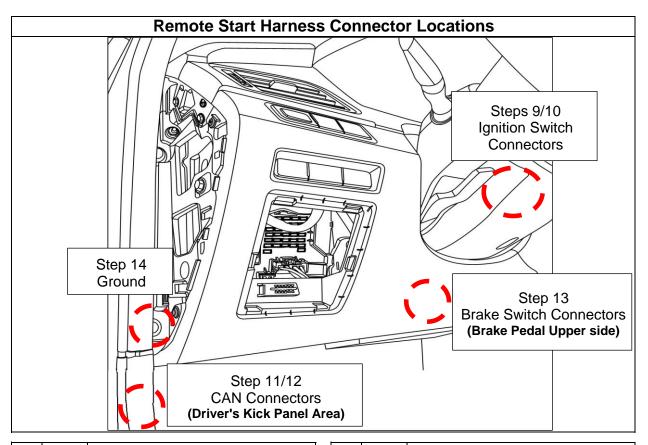
Disconnecting Connectors

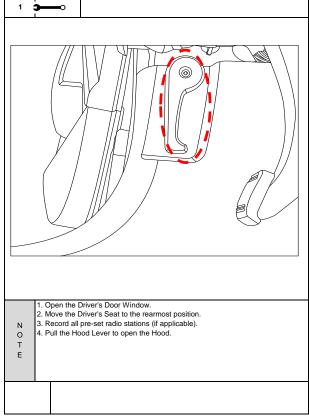
When disconnecting connectors, grasp the connectors, not the wire.

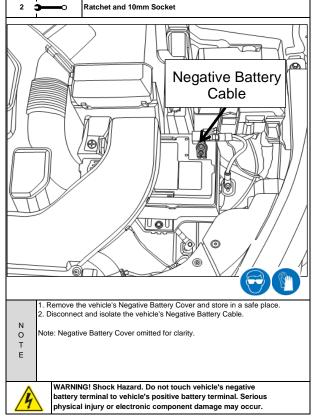


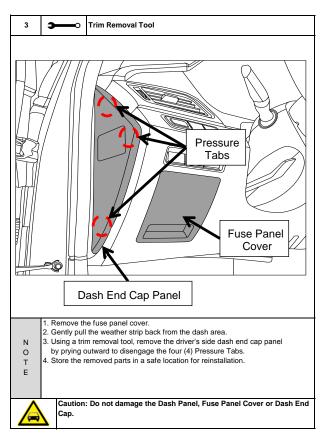
Locking Connectors

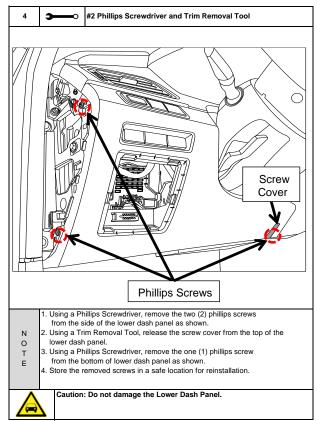
When locking connectors, listen for a click indicating they are securely locked.

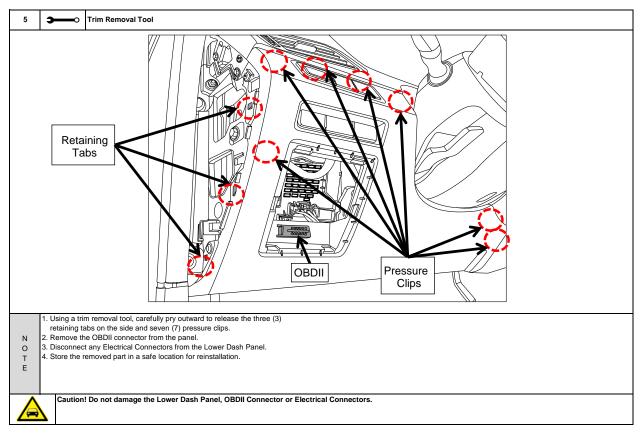


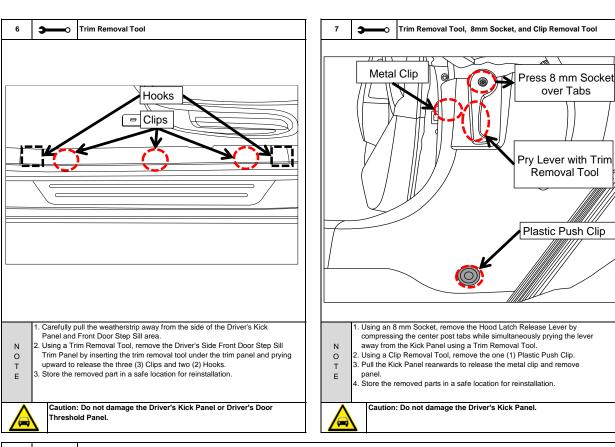


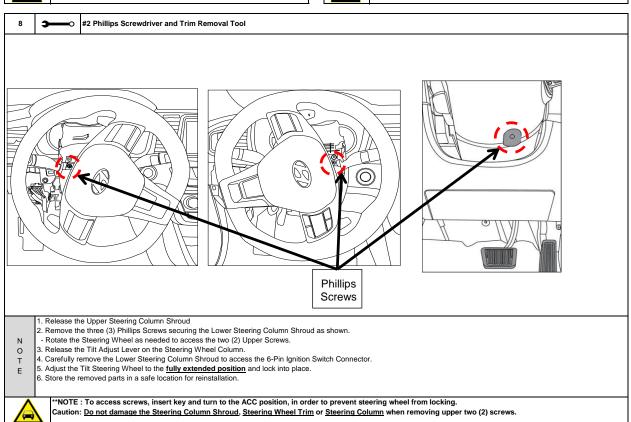


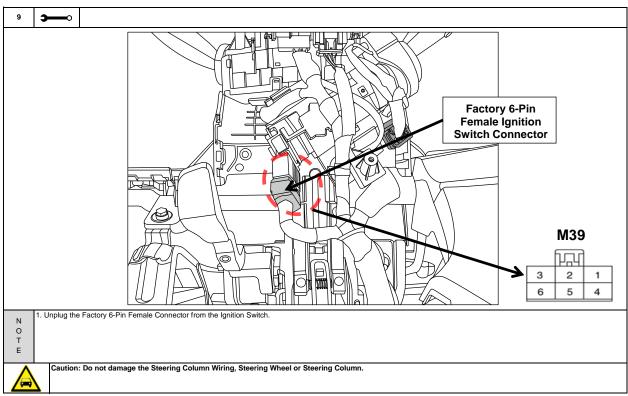


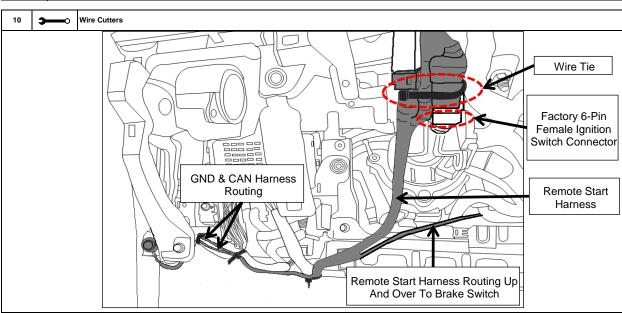












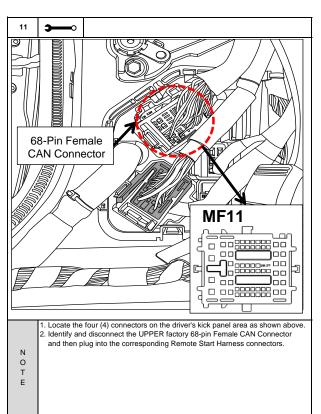
- . Plug the Factory 6-Pin Female Connector into the Remote Start 6-Pin Male Connector.
- 2. Plug the Remote Start Harness 6-Pin Female Connector into the Ignition Switch connector.
- Adjust the Remote Start Ignition Harness and Factory Ignition Harness as needed to make sure there are no rub or pinch areas or contact points with steering column components and the tilt mechanism / springs.
 - 4. Make sure the steering column is fully extended / tilted up and locked in place before installing the wire tie.
- 5. Make sure the Remote Start Harness is routed as shown.
 - 6. Using one (1) Wire Tie, secure the Remote Start Harness to the Factory Harness as shown.

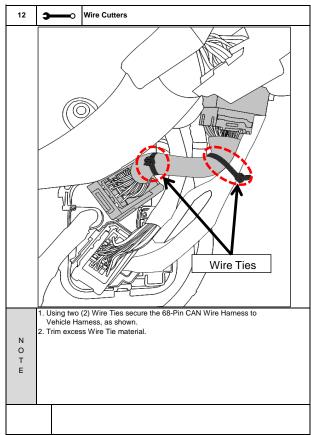
7. Trim excess Wire Tie material.

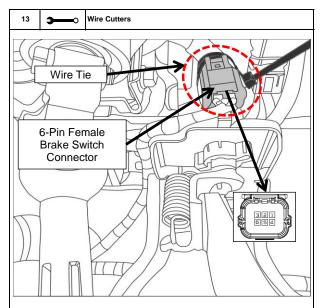
NOTE: The Remote Start Harness routing position from the Ignition Switch over to the ground location, as shown above, is for clarity only. Follow the next steps for the actual sequence of installation.

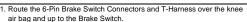


Caution: Do not damage the Steering Column Wiring, Steering Wheel or Steering Column.









- 2. Locate the Factory Female 6-Pin Connector, located on the Brake Switch
- as shown above.

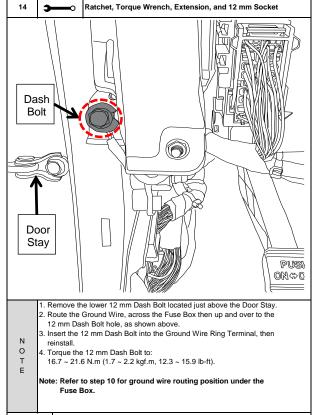
 3. Disconnect the Factory Female 6-Pin Connector from the Brake Switch and plug it into the corresponding Remote Start T-Harness Connector. 4. Plug the corresponding 6-Pin Remote Start Harness Connector into the
- Brake Switch. Ensure both connectors are fully locked together.

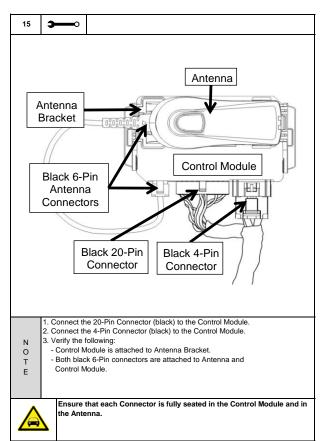
 5. Using a Wire Tie, secure the 6-Pin Brake Switch Connector to the Remote
- Start Harness and to the Factory Brake Switch Harness.
- 6. Trim excess Wire Tie material.

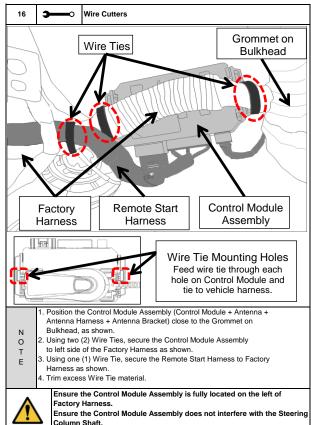


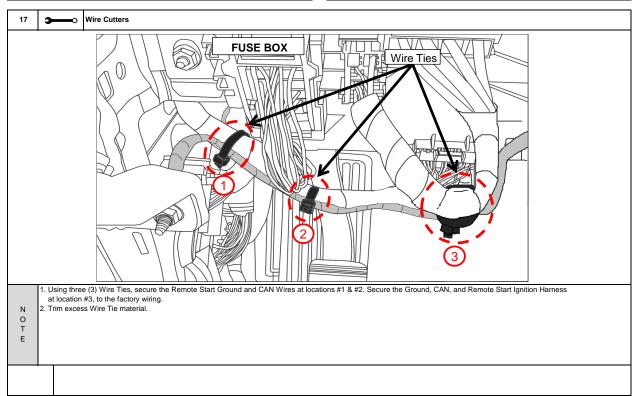
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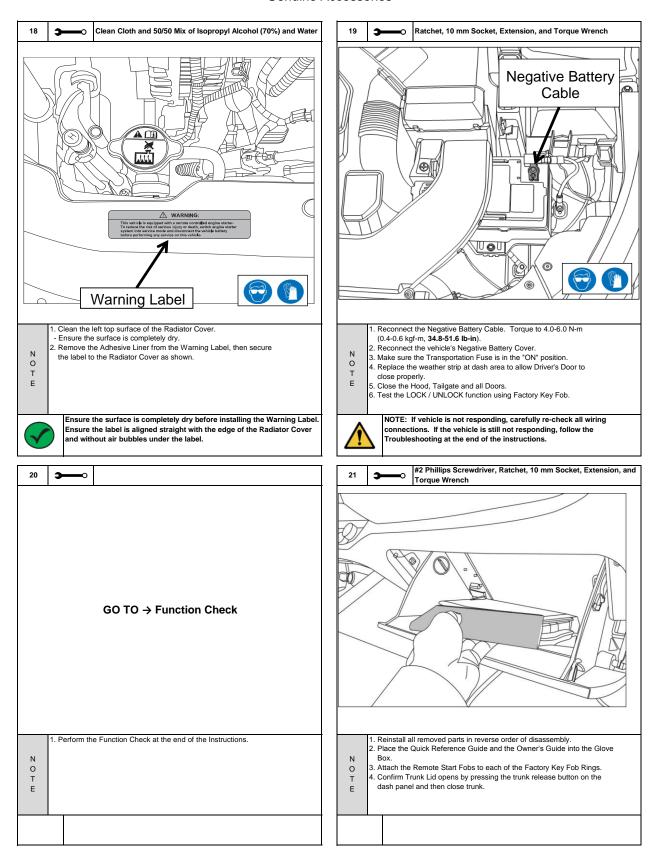
CAUTION! Route Brake Switch wire harness under steering column. Make sure there is adequate clearance between wire harness and steering components.

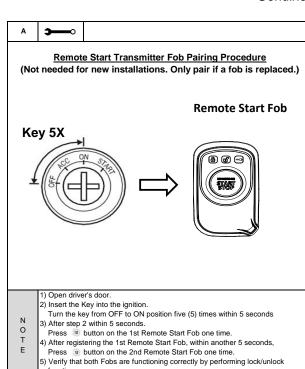












Note: The remote start key Fobs come paired to the system from the factory, and should not require re-pairing. Note: The remote engine start system can recognize up to three (3) remotes

Fobs; the kit includes two (2) remote Fobs.

If a new Fob, or additional Fob is needed later, the Fob pairing process

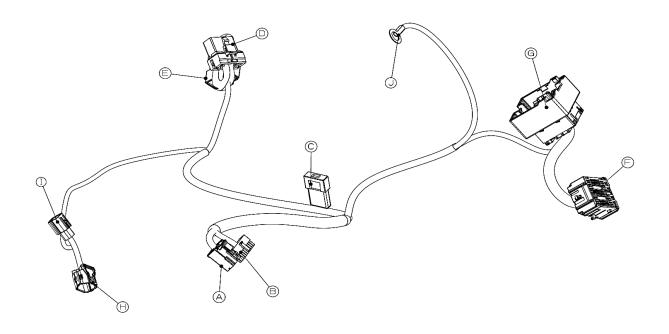
should be done with the original Fob or oldest available Fob.

Function Check

Items To Be Checked Items to be Checked Press 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. Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and Driver's door will UNLOCK 2. Press 🍙 button 2 more times. Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and al doors will UNLOCK. 1. Press 🍿 button one time. Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK. Within 3 seconds, press and hold button for 2 seconds. Transmitter Fob KEY icon will flash, the engine will crank and start, the vehicle signal lights will flash. While the vehicle is running via remote start, 1. Press button two (2) 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 Press in button two (2) additional times. and All doors will UNLOCK. While the vehicle is running via remote start, Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all 1. Press 🍥 button one (1) time. doors will LOCK. While the vehicle is running via remote start, 1. Press brake pedal. The engine will shut down immediately. Vhile the vehicle is running via remote start, 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. While the vehicle is running via remote start, 1. Open any door. The engine will stop after approximately thirty (30) seconds. While the vehicle is running via remote start, I. After all doors are unlocked via the remote start fob, open the trunk The engine will stop after approximately fifty (50) seconds. by pressing the trunk release button within the Hyundai logo on the trunk lid. Confirm the brake lights are operating.

Troubleshooting

	Issue / Concern	Result	
✓	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 are closed.	
◆	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.	
✓	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 Manual for instructions to change the batteries.	
✓	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 Manual 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.	
✓	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. Verify the brake connector is correctly installed. (refer to Step 13).	



A FEMALE 4P MODULE CONNECTOR

_ <u>_</u>		MAKER KET		Т	신규	C/0
		HOUSING	MG6100	47-5		•
	E25E45	TERMINAL	ST738	88=3		•
70	CIRCUIT NAME	CIRCUIT DES	CRIPTION	SPE	EC	RMK
1	IGN-1	IG2 Out	put	AVS 3	3.0	w
2	IGN-2	START	Output	AVSS	0.85	Υ
3	IGN-3	IG1 OUT	out	AVS 3	3.0	G
4	IGN-4	(+12V) E	BATT	AVS 3	3.0	R

(B) FEMALE 20PIN Input/Output CONNECTOR

			MAKER	MOL	EX	신규	C/0
	3 5 7 9 11 13 15 17 4 6 6 11 12 14 16 18		HOUSING	43025-	2000(B)		•
<u> </u>	s (a) (a) (a) (c) (c) (c) (c)		TERMINAL	43030	-0001		•
ΝΟ.	CIRCUIT NAME	CIF	ROUIT DESC	RIPTION	SPI	EC	RMK
1	(-)GND	Ö	ND		AVSS	0.5	В
2	(-)GND	G	ND		AVSS	0.5	В
9	(+)PIC#3	Ŀ	ootbrake Ir	nput	AVSS	0.3	W/B
19	CAN-HIGH	Ф	CAN-H		AVSS	0.3	BR
20	CAN-LOW	В	CAN-L		AVSS	0.3	w

© 2P FUSE (30A)

9	CIRCUIT NAME	CIRCUIT DESCRIPTION	SPEC	RMK
1	30F-1	To Main	AVS 3.0	R
2	30F-2	To Vehicle	AVS 3.0	R

FEMALE 6P Ignition CONNECTOR

		MAKER	KUM		신규	C/O
		HOUSING	PH776-	06025		•
	101151114	TERMINAL	MTO25- MTO25-			•
NO	CIRCUIT NAME	CIRCUIT DES	SCRIPTION	SPI	EC	RMK
2	IGN-2	IG2 Out	put	AVS	3.0	w
3	IGN-3	START	Output	AVS	2.0	Y
4	IGN-4	IG1 Outr	out	AVS	3.0	G
5	IGN-5	(+12V) E	BATT	AVS	3.0	R

© MALE 6P Ignition CONNECTOR

		MAKER KUM		•	신규	C/0
П	123	HOUSING	HOUSING PH772-			•
456		TERMINAL	MT021-23230 MT021-23330			•
NO	CIRCUIT NAME	CIRCUIT DES	CRIPTION	SPI	EC	RMK
2	IGN-2	IG2 Out	out	AV5	3.0	w
3	IGN-3	START	Dutput	AVS	2.0	Y
4	IGN-4	IG1 Dutc	out	AVS	3.0	G
5	IGN-5	(+12V) E	BATT	AVS	3.0	R

F FEMALE 68P CAN CONNECTOR

١,		MAKER	KE	T	신규	C/0
0		HOUSING	MG65	5730		•
6		TERMINAL	ST731; ST731; ST731; ST731;	335-3 336-3		•
NO	CIRCUIT NAME	CIRCUIT DESC	RIPTION	SPE	C	RMK
27	CAN-27	B CAN-	-н	AVSS	0.3	BR
28	CAN-28	B CAN-	Ļ	AVSS	0.3	w

@ MALE 68P CAN CONNECTOR

ſ			MAKER	KET		신규	C/O
			HOUSING	MG6	45775		•
			TERMINAL	ST74 ST74	1346-3 1332-3 1333-3 1286-3		•
NO	CIRCUIT NAME	Ē	CUIT DESCR	IPTION	SPE	2	RMK
27	CAN-27		B CAN-H		AVSS	0,3	BR
28	CAN-28		B CAN-L		AVSS	0.3	w

$\widehat{\mathbb{H}}$ FEMALE 6P Footbrake CONNECTOR

		MAKER	KUM		신규	C/D
		HOUSING	HP285-0	06021		•
		TERMINAL	TP105-0	00100		•
70	CIRCUIT NAME	CIRCUIT DE	SCRIPTION	SPE	С	RMK
5	FBRK-5	FOOTBRA	KE Input	AVSS	0.3	W/B

① MALE 6P Footbrake CONNECTOR

	_						
			MAKER	KUM	1	신규	C/0
			HOUSING	H P281-06020			•
			TERMINAL	TP101-0	0100		•
	20	CIRCUIT NAM	ECIRCUIT DE	ESCRIPTION	SP	EC	RMK
	5	FBRK-5	FOOTBRA	KE Inout	AVSS	0.3	w/B

◯ Ground Terminal

	40					MAKER	KET
						Part No.	ST710286-3
ı	40	CIRCUIT	NAME	CIRCUIT	DE	ESCRIPTION	SPEC
	1	GNID		Ground	1		Bird Haw Belling Toch Comm