

# Genuine Accessories



Vehicle Model **G80**

Model Year 2017~

Part No. B1064 ADU01

Language English

Rev. Date 8/10/2016

Accessory: **Card Key**

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

### 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		
	Denotes cautions to be taken to avoid vehicle and component damage	<b>N O T E</b>	Denotes important information to be reviewed during the step		

### Basic Required Tools

Internet-equipped computer	Hyundai Service Website Access Credentials	Hyundai Dealer Website Access Credentials

### Specialty Required Tools

Key Cutting Machine (BD Laser 944 with Shim #B3379 or equiv.)	VCI	GDS Mobile (GDSM) Device

Part Weight (Gross) B1064 ADU00 (DIO)	
<b>0.07</b>	lbs
<b>0.03</b>	kg

### FMVSS 110 Compliance Information

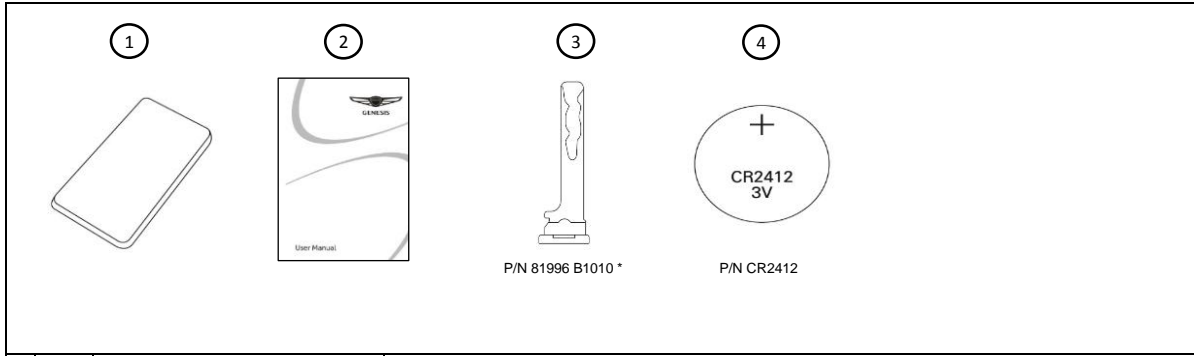
All dealers must determine if the weight they have added in the form of all options or accessories, when added to the weight of all Port/Dealer Installed options or accessories, exceeds the lesser of 1.5% of GVWR or 100 lbs. If the additional weight does exceed the lesser of the indicated thresholds, 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.
- 9 To perform this installation, **BOTH** Smart Keys **MUST** be available.
- 10 The following instructions are for the GDS Mobile (GDSM) Scan tool. Instructions for GDS Laptop are similar.

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### Kit Overview



No.	Qty	Description
1	1	Card Key
2	1	User Manual
3	1	Mechanical Key*
4	1	Battery

\*Dealer must order a Precut Mechanical Key (81996 B1010) for B1064 ADU00 (DIO). Follow the below steps for details.

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1A		
<b>Key Code/PIN Code Retrieval</b>		
Key fob and info tag may differ from the above images.		
N O T E	<ol style="list-style-type: none"> <li>1. Find the Key Code tag that is attached to both Smart Keys.</li> <li>2. Look for the five (5) <b>OR</b> six (6) digit code on the tag. Record only the last four (4) numerical values. Disregard everything in front of the <u>last four (4) values</u>. - In the above example, the Key Code is 2217.</li> </ol> <p><b>If Key Code Tag is not available, refer to Step 1B for Key Code retrieval.</b></p>	

1B		Internet-equipped Computer, Hyundai Service Website Key Code Access Credentials
<b>Key Code/PIN Code Retrieval</b>		
N O T E	<ol style="list-style-type: none"> <li>1. Log in to the Hyundai Service Website and click the VIN Search link.</li> <li>2. Enter the vehicle's VIN and click Search.</li> <li>3. Click Search Key/PIN Code and record the entire displayed Key Code, New PIN Code, and Old PIN Code.</li> </ol> <p><b>Important! The New PIN code must be used first. <u>If New PIN Code fails during programming, retry using the Old PIN Code.</u></b></p>	
<p><b>NOTE: User must have access to Key &amp; PIN code search feature. Consult Service or Parts Manager if you do not have this access.</b></p>		

1C		Internet-equipped Computer and Hyundai Dealer Website Access Credentials
<b>If you do <u>not</u> have the required key cutting machine:</b>		
N O T E	<p><b>SKIP TO STEP 1D IF KEY CUTTING MACHINE IS AVAILABLE</b></p> <ol style="list-style-type: none"> <li>1. Log in to Hyundai Dealer Website and retrieve the instruction manual: "Quick Guide: Ordering Laser Cut Keys".</li> <li>2. Following the instructions provided in the Quick Guide, have the Parts Manager or applicable dealership personnel place an order for the precut Mechanical Key (Part# 81996 B1010).</li> <li>3. The vendor will cut the key and ship it to the address provided.</li> </ol> <p><b>SKIP TO STEP 2</b></p>	
<p><b>Important: Parts Manager must perform this step.</b></p>		

1D		BD Laser Key 944 Cutting Machine (or equivalent) and Shim #B3379 (or equivalent)
<b>If you have the required key cutting machine:</b>		
N O T E	<ol style="list-style-type: none"> <li>1. Remove the mechanical key from the Card Key.</li> <li>2. Enter the Year, Make of the vehicle into the Key Machine when prompted. <ul style="list-style-type: none"> <li>- Select "GENESIS" for the vehicle model.</li> <li>- Select Applic: DOOR/TRUNK</li> </ul> </li> <li>3. Enter the Alpha character for Genesis ("X") followed by the last four (4) numerical digits of the Key code when prompted. Example from Key Code in Step 1A: X2217 - Some Key Cutting Machines may not require the Alpha character to be entered and only require the last four (4) numerical digits of the Key Code.</li> <li>4. Insert the shim (Part# B3379) followed by the mechanical key (beveled side UP). Press Enter to cut the mechanical key.</li> <li>5. Ensure new finished key is free of debris, oil, metal shavings, etc.</li> </ol>	
<p><b>CAUTION: Ensure the key is properly oriented in the machine. CAUTION: Ensure the proper stops/shims are installed in the machine. CAUTION: Always follow the manufacturers instructions when using the key cutting machine.</b></p>		

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N O T E		<ol style="list-style-type: none"> <li>1. After cutting or receiving a pre-cut mechanical key, remove the driver's door key hole cover by depressing the tab on the underside of the handle cover.</li> <li>2. Insert the key into the keyhole and confirm it will easily LOCK/UNLOCK the driver's door. Remove key and reinstall key hole cover.</li> <li>3. Re-Insert the cut mechanical key into the Card Key.</li> <li>4. Insert the battery &amp; battery tray into the Card Key as shown above. Ensure the battery polarity is correct; (+) Positive side facing upwards.</li> </ol>
		<p>NOTE: The door will not lock if one or both key fobs are inside the vehicle at the time.</p>

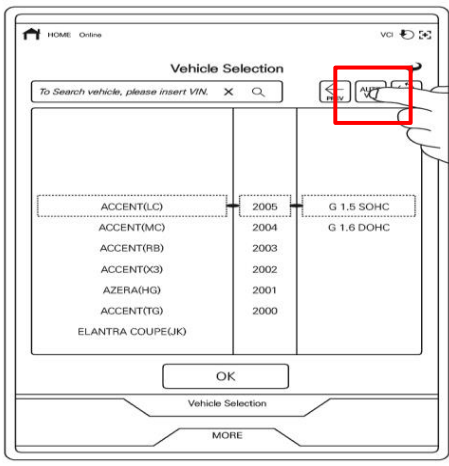
3		GDS Mobile Device, VCI
N O T E		<ol style="list-style-type: none"> <li>1. Remove the Fuse Cover Panel.</li> <li>2. Connect the VCI to the OBD2 Port. - The unit should light up if properly connected.</li> <li>3. Press the Start Stop Button two (2) times to turn the vehicle ON (Key ON; Engine OFF) state.</li> </ol>
		<p>CAUTION! Store removed panel in a manner to avoid damaging it. NOTE: The following instructions are for the GDS Mobile Tool. GDS laptop based scan tool instructions are similar.</p>

4		GDSM Device
N O T E		<ol style="list-style-type: none"> <li>1. Turn on the GDS Tablet and Open the GDS Program.</li> <li>2. Go to the Main GDSM Diagnostic Screen.</li> </ol>

5		GDSM Device
N O T E		<ol style="list-style-type: none"> <li>1. Select the "S/W Management" icon.</li> </ol>

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**6**  **GDSM Device**



Vehicle Selection

To Search vehicle, please insert VIN. X Q

ACCENT(LC)	2006	G 1.5 SOHC
ACCENT(MC)	2004	G 1.6 DOHC
ACCENT(RB)	2003	
ACCENT(X3)	2002	
AZERA(HG)	2001	
ACCENT(TG)	2000	
ELANTRA COUPEU(K)		


OK

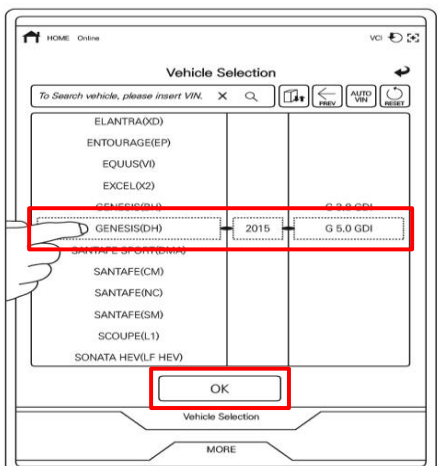
Vehicle Selection

MORE

**NOTE**

1. Select the "Auto VIN" icon.

**7**  **GDSM Device**



Vehicle Selection

To Search vehicle, please insert VIN. X Q

ELANTRA(XD)		
ENTOURAGE(EF)		
EQUUS(VI)		
EXCEL(KZ)		
GENESIS(DH)	2015	G 5.0 GDI
SANTAFE SPORT(BRW)		
SANTAFE(CM)		
SANTAFE(NC)		
SANTAFE(SM)		
SCOUPE(L1)		
SONATA HEV(LF HEV)		


OK

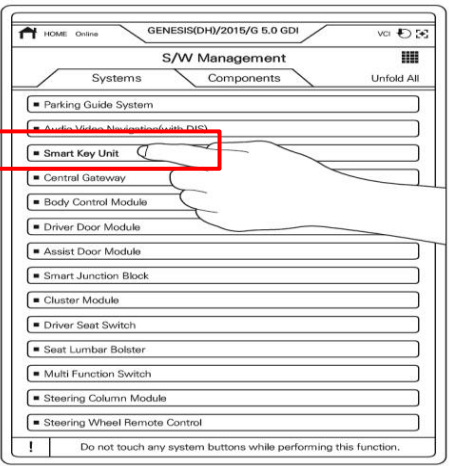
Vehicle Selection

MORE

**NOTE**

1. After selecting "Auto VIN" the GDSM Device will automatically display the vehicle's VIN, vehicle model, model year, and engine.  
2. Confirm the VIN, vehicle model, model year, and engine information displayed is correct.  
3. Select "OK".

**8**  **GDSM Device**



S/W Management


Systems Components Unfold All

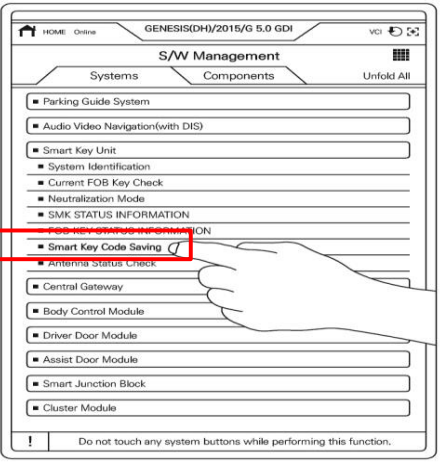
- Parking Guide System
- Audio Video Navigation(with DIS)
- Smart Key Unit
- Central Gateway
- Body Control Module
- Driver Door Module
- Assist Door Module
- Smart Junction Block
- Cluster Module
- Driver Seat Switch
- Seat Lumbar Bolster
- Multi Function Switch
- Steering Column Module
- Steering Wheel Remote Control

! Do not touch any system buttons while performing this function.

**NOTE**

1. Select "Smart Key Unit" listed under the "Systems" tab.

**9**  **GDSM Device**



S/W Management

Systems Components Unfold All


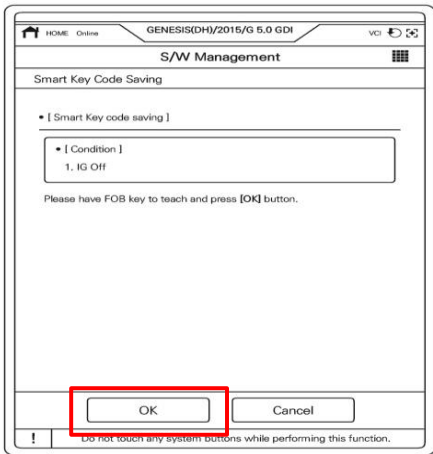
- Parking Guide System
- Audio Video Navigation(with DIS)
- Smart Key Unit
  - System Identification
  - Current FOB Key Check
  - Neutralization Mode
  - SMK STATUS INFORMATION
  - Smart Key Code Saving
  - Antenna Status Check
- Central Gateway
- Body Control Module
- Driver Door Module
- Assist Door Module
- Smart Junction Block
- Cluster Module


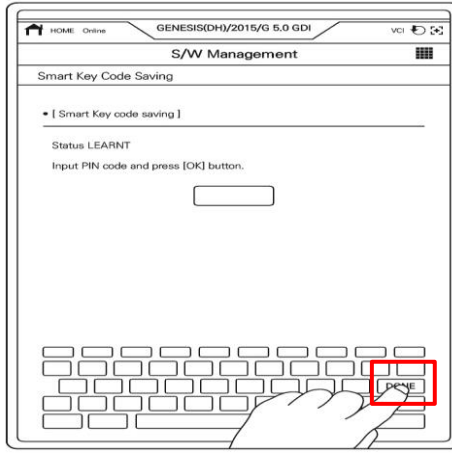
! Do not touch any system buttons while performing this function.


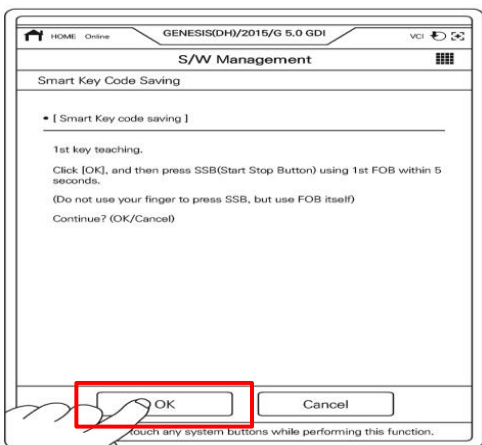
**NOTE**


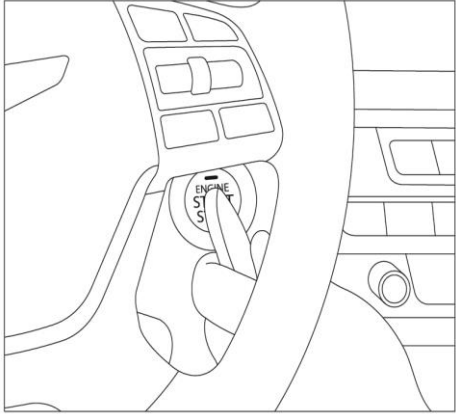
1. Select "Smart Key Code Saving".  
2. A warning screen may appear. Select "OK".  
3. The next screen will show the vehicle state that the car must be in to proceed with learning key fobs (Key OFF, Engine OFF). Select "OK" to continue.

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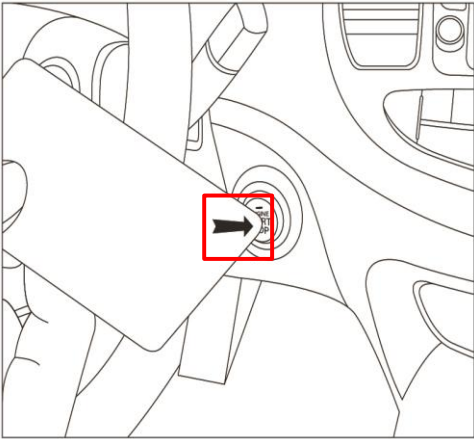

10	 <b>GDSM Device</b>
	
N O T E	<ol style="list-style-type: none"> <li>1. Turn the vehicle ignition to "OFF" (Key OFF, Engine OFF).</li> <li>2. <b>Before proceeding, ensure that you have the <u>two (2) Smart Key Fobs and one (1) Card Key</u> within reach.</b></li> <li>3. Select "OK".</li> </ol>


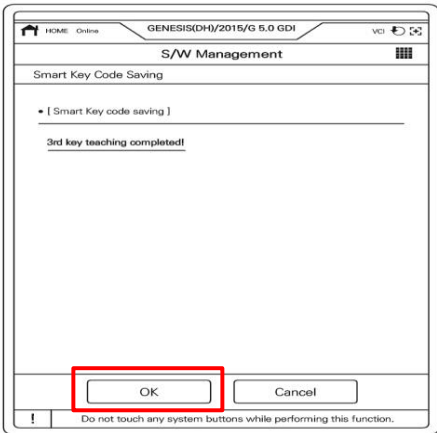
11	 <b>GDSM Device</b>
	
N O T E	<ol style="list-style-type: none"> <li>1. Enter the vehicle's <b>NEW</b> PIN code found in Step 1B. Select the "DONE" button. - If the New PIN Code fails, reattempt using the Old PIN Code.</li> <li>2. Select "OK".</li> </ol>

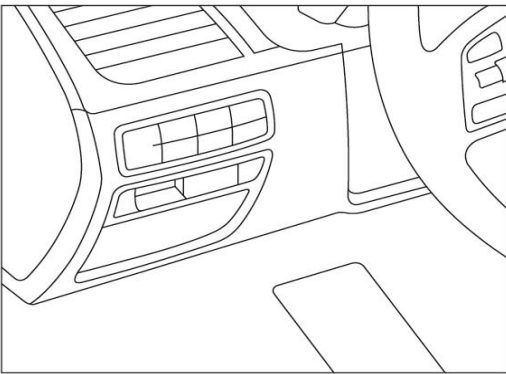
12	 <b>GDSM Device</b>
	
N O T E	<ol style="list-style-type: none"> <li>1. Hold one (1) of the vehicle's original smart keys in your hand.</li> <li>2. Select "OK".</li> </ol>
<p><b>IMPORTANT!</b> In the next step, you will have five (5) seconds to press and hold the Start Stop Button with the Smart Key from the time you select "OK" in the step above.</p>	

13	 <b>GDSM Device</b>
	
N O T E	<ol style="list-style-type: none"> <li>1. <b>Press and Hold the vehicle's Start Stop Button with the 1st original Smart Key Fob</b> until the Key Detection icon flashes briefly in the Gauge Cluster and you are given a success notification on the GDSM.  - If the attempt is unsuccessful, verify the key fob battery is in good condition and restart the procedure at Step 8.</li> <li>2. Repeat <b>Steps 12 &amp; 13</b> with the 2nd original Smart Key Fob.</li> </ol>
<p>The system will allow two (2) Smart Keys to be paired to the vehicle in addition to the one (1) Card Key.</p>	

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N O T E	<ol style="list-style-type: none"> <li>1. Hold the Card Key in your hand.</li> <li>2. When prompted, Select "OK" to begin the learn procedure for the 3rd FOB (Card Key).</li> <li>3. <b>Within 5 seconds, Press &amp; Hold the vehicle's Start Stop Button with the UPPER LEFT corner of new Card Key until the Key Detection Icon briefly illuminates in the Gauge Cluster and you are given a success notification on the GDSM.</b></li> </ol> <p>The Start Stop Button <b>MUST</b> be pressed with the indicated corner (Upper Left), or pairing may be unsuccessful.</p>
	<p>The system will allow one (1) Card Key to be paired to the vehicle, in addition to the original two (2) Smart Keys.</p>

15		GDSM Device
		
N O T E	<ol style="list-style-type: none"> <li>1. Upon successful completion of the 3rd FOB (Card Key) programming, Select "OK".</li> <li>2. Exit the GDSM Device software.</li> <li>3. Perform the Function Check at the end of these Instructions to confirm functionality of the two (2) Smart Keys and one (1) Card Key.</li> </ol>	





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N O T E	<ol style="list-style-type: none"> <li>1. Disconnect the VCI.</li> <li>2. Replace the Fuse Cover Panel.</li> <li>3. Place the Card Key back in it's protective sleeve (if removed) and attach it to both Smart Keys on the Key Code Tag ring. Place the keys in the center console cup holder.</li> <li>4. Place the User Manual into the Glove box.</li> </ol>

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### Visual Check

	Item to be Checked		Result
	Removed panels are all replaced.		Fuse Cover Panel has been re-installed.
	Card Key is attached to the key ring with both Smart Key Fobs and are stored in the center console cup holder.		All Keys are attached together and stored in the center console cup holder.
	User Manual has been placed in the Glove Box.		User Manual is in the Glove Box.

### Function Check

	Item to be Checked		Result
	Exit the vehicle, Place the two (2) smart keys on a table more than 5m (15ft) away, Return to the vehicle with the Card Key in hand, Lock the doors with the button on the Driver's Door Handle, Move to the trunk, Open the trunk by pressing the switch pad, Close the trunk, Move to the Driver's door, Unlock the door with the switch on the Driver's Door Handle, Enter the vehicle, Start the vehicle, Stop the vehicle.		The doors will lock.  The trunk will open.  The driver door will unlock.  The vehicle will start. The vehicle will stop running.
	Place the Card Key and Smart Key #2 more than 5m (15ft) away. Retrieve Smart Key #1, check that the LOCK/UNLOCK buttons work properly and Smart Key #1 is able to turn on/off the engine.		Driver door will lock & unlock according to the fob button pressed. All doors will unlock, if the UNLOCK button is double-pressed, according to the vehicle settings. Vehicle will start and stop the engine.
	Place the Card Key and Smart Key #1 more than 5m (15ft) away. Retrieve Smart Key #2, check that the LOCK/UNLOCK buttons work properly and Smart Key #2 is able to turn on/turn off the engine.		Driver door will lock & unlock according to the fob button pressed. All doors will unlock, if the UNLOCK button is double-pressed, according to the vehicle settings. Vehicle will start and stop the engine.
	Check to see if the mechanical key from Card Key will easily LOCK/UNLOCK the driver's door.		Door should lock and unlock without excessive force or binding.

### Troubleshooting

	Issue / Concern		Items to be Checked
	Pairing process cannot be completed (any key).		Confirm OBDII Wireless Transceiver is properly attached. Confirm GDS Device is sync'd with the Transceiver. Confirm GDS Device has recognized the correct vehicle & model year. Ensure all low frequency electronics are removed from the vehicle, including cell phones. Ensure when pairing, you are pressing and holding the Start Stop Button with the Smart Key until it is successful.
	Pairing process cannot be completed (Card Key).		Card Key may have been paired with another vehicle. Ensure when pairing, you are pressing and holding the Start Stop Button with the Card Key's indicated corner (Upper Left).
	Intermittent malfunction of Card Key.		Ensure that Card Key is not placed near cell phone or other electronics. Check for fully or partially discharged battery in Card Key.