



INSTALL GUIDE

DIR-IDS(RS)-BZ4-[ADS-BZ4]-EN

DOCUMENT NUMBER
20433

REVISION DATE
20150121

FIRMWARE
DIR-IDS(RS)-BZ4-[ADS-BZ4]

HARDWARE
ADS-BZ4

ACCESSORIES
ADS-USB (REQUIRED)
DIRECTED XL-202 RF-KIT & ADS-HRN(RS)-XL02 (OPTIONAL)
DIRECTED SMARTSTART & ADS-HRN(RS)-SM01 (OPTIONAL)

NOTICE The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. Please review the Installation Guide carefully before beginning any work.



BEFORE INSTALLATION

- 1- Connect module to computer
- 2- Login to Weblink account
- 3- Flash firmware to module (module is not preloaded with firmware)
- 4- Use accessories accordingly (accessories are sold separately)

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES																
				3X LOCK START/STANDALONE MOD.	SECURE TAKEOVER	DATA IMMOBILIZER BYPASS	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	TRUNK/HATCH RELEASE	POWER LIFTGATE	PARKING LIGHT CTRL	RAP SHUTDOWN CTRL	TACHOMETER STATUS MONITORING	BRAKE PEDAL STATUS MONITORING	VSS STATUS MONITORING	GLOW PLUG STATUS MONITORING	DOOR STATUS MONITORING	TRUNK STATUS MONITORING
MERCEDES-BENZ	B-Class AT	12-14	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	CLA-Class AT	14	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	G-Class AT**	13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	G-Class AMG AT**	13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GL-Class AT**	13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GL-Class PTS AT**	13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GL-Class Diesel AT**	13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GL-Class PTS Diesel AT**	13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GL-Class AMG AT**	13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GL-Class AMG PTS AT**	13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GLA-Class AT	14-15	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ML-Class AT**	12-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ML-Class PTS AT**	12-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ML-Class Diesel AT**	12-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ML-Class PTS Diesel AT**	12-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ML-Class AMG AT**	12-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ML-Class AMG PTS AT**	12-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

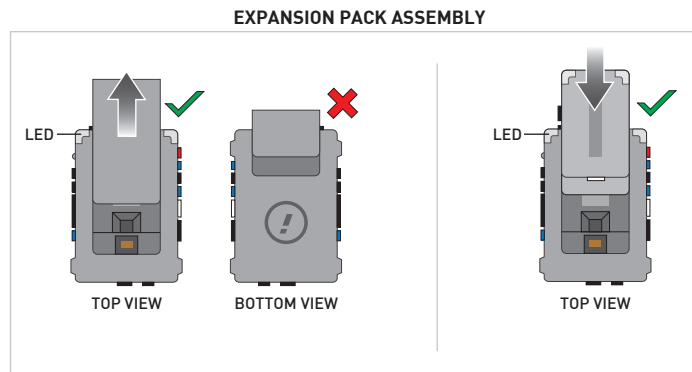
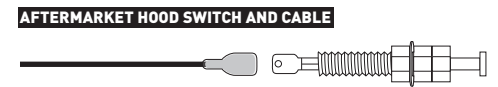
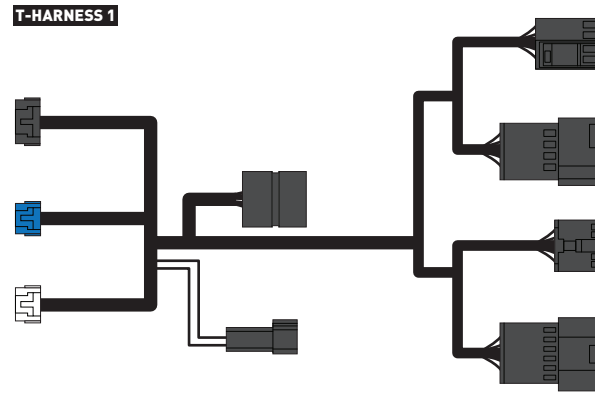
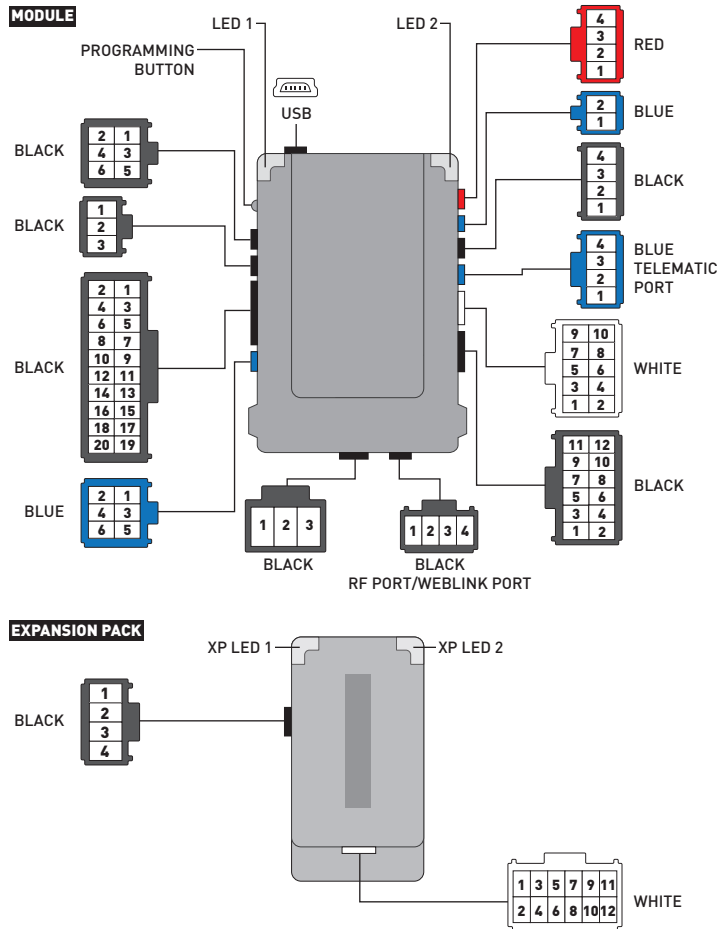
NOTES

I This firmware covers Automatic Transmission (AT) vehicles only.

II All the covered Push To Start (PTS) vehicles are equipped with a keyless authorization system called "Keyless Go".

* If equipped with a factory hood switch.
** 2014 models are NOT covered. The encryption is not the same. Verify VIN before installation.

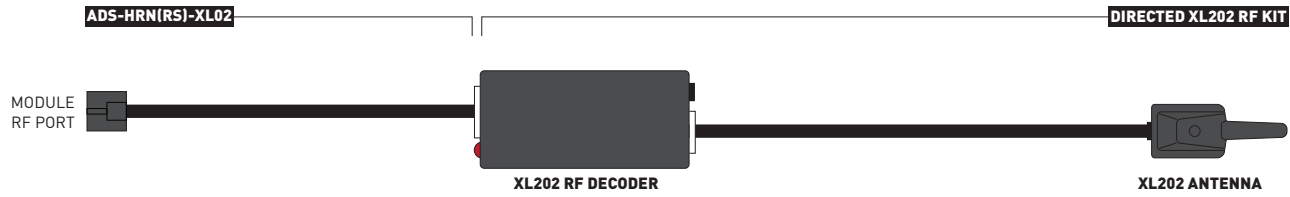
BOX CONTENTS



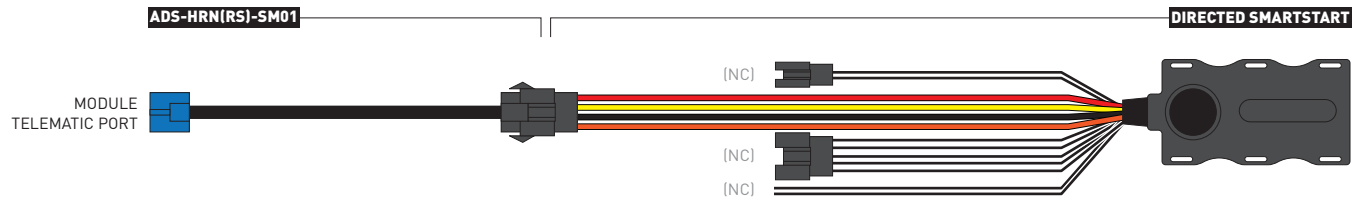
WEBLINK CABLE (required accessory sold separately)

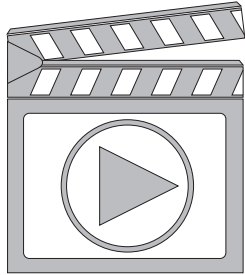


RF KIT (accessories sold separately)



TELEMATIC KIT (accessories sold separately)



IMPORTANT**INSTALL VIDEO GALLERY AVAILABLE ONLINE**

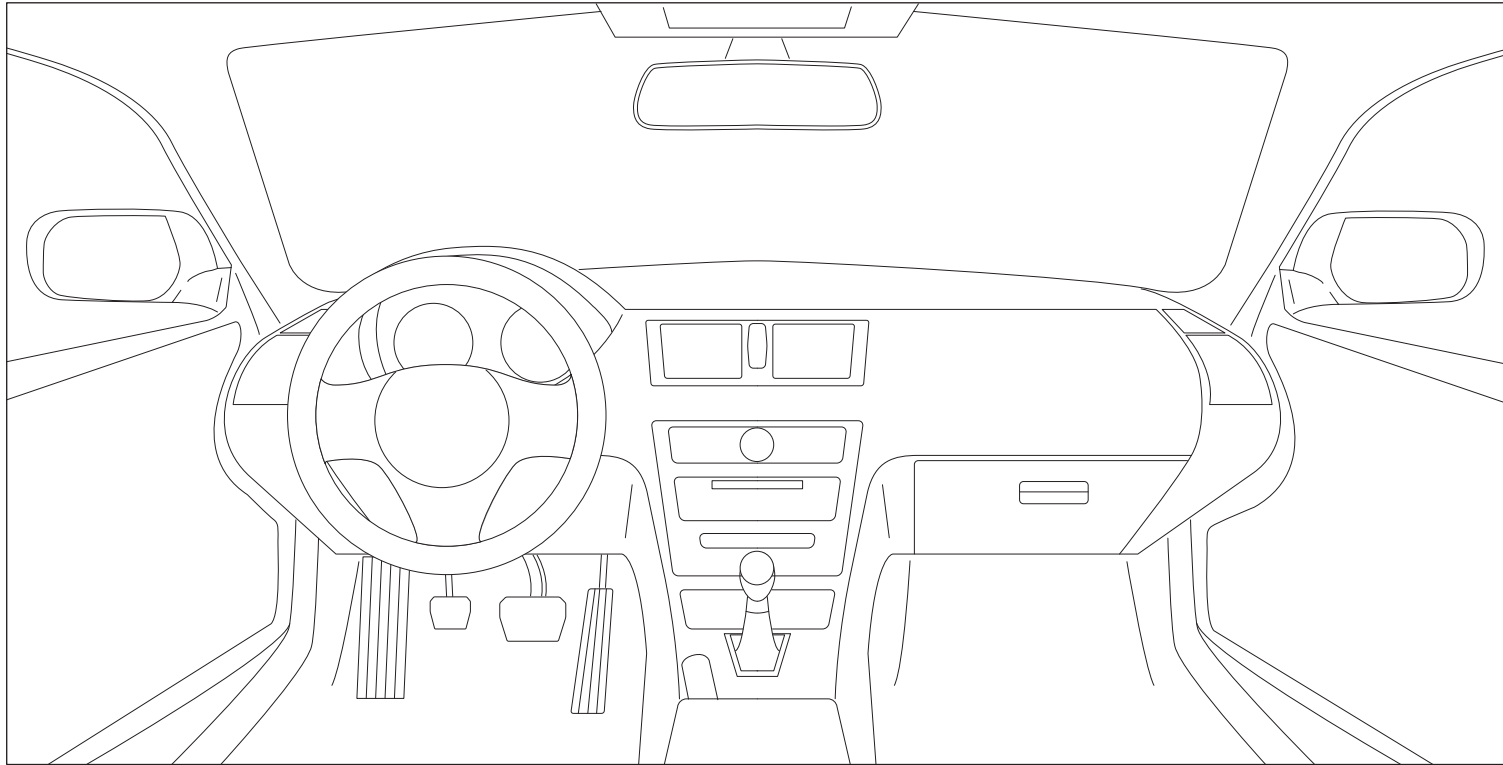
Before installing this product, consult our Install Video Gallery and watch:

- Vehicle Disassembly Procedure videos
- Module Connection Procedures videos
- Module Programming Procedures videos

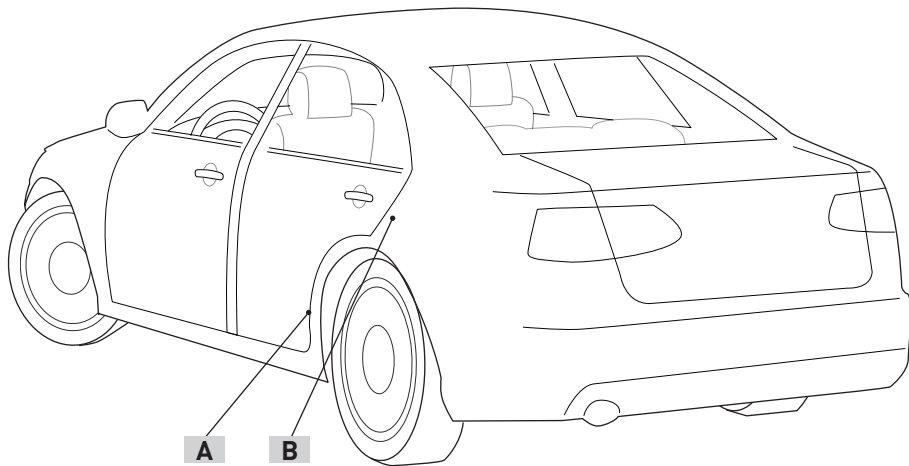
Simply visit our forum and register at

<http://www.12voltdata.com/forum/viewtopic.php?f=340&t=9683&sid=a61772b486e4584ad6f058b171ffa425>

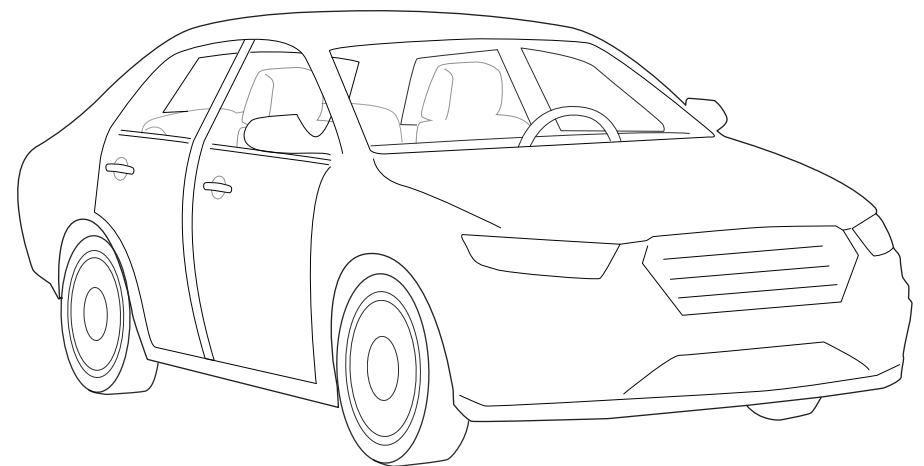
INTERIOR VIEW




DRIVER SIDE VIEW





PASSENGER SIDE VIEW

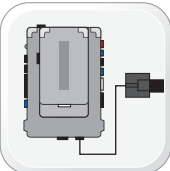



01  START the vehicle. Verify all vehicle functionalities. If the vehicle displays error messages or any malfunction: stop the installation and service the vehicle.


02  Turn OFF the vehicle.


03  Verify all keyfob functionalities (Door Lock, Door Unlock, Trunk Release and RFID access if equipped).


04  Insert the expansion pack in the module.

05  Connect the module to the computer with the programming cable (WEBLINK port). Flash the module with the latest firmware then flash the expansion pack.

06  Connect and secure every connector to the vehicle, as shown in STEP 1 of the WIRING DIAGRAM.

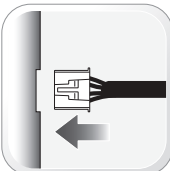
07  WARNING: Any vehicle harness that is disconnected during installation, must be re-connected before performing any system tests. Failure to comply will result in vehicle displaying error messages. An OEM scantool will be required to clear the error messages.

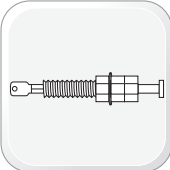
08  START the vehicle. Verify all vehicle functionalities.

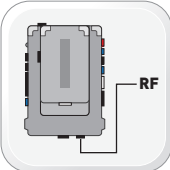
09  WARNING: If the vehicle displays error messages or any malfunction, stop the installation, verify every connection and if the problem persists, call technical support.

10  Turn OFF the vehicle.


11  Connect every connector to the module, as shown in STEP 2 of the WIRING DIAGRAM.


12  Connect every other connector to the module, as shown in STEP 3 of the WIRING DIAGRAM.

13  If the vehicle is not equipped with a factory hood switch, install an aftermarket hood switch as shown in STEP 4 of the WIRING DIAGRAM.

14  If required, connect a compatible RF Kit to the RF port of the module.

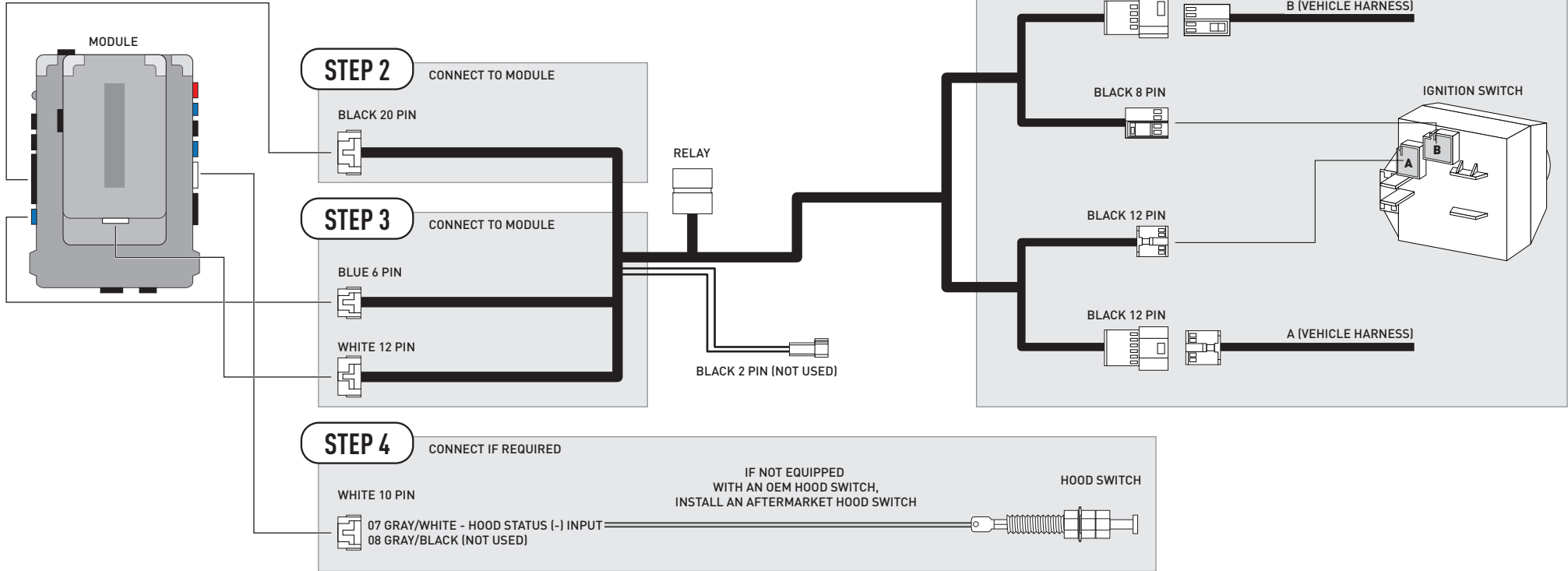
15  If required, connect a compatible Telematics Device to the TELEMATIC port of the module.

16  Put sticker 1 on a clean and visible surface in the engine bay and put sticker 2 under the dashboard near the OBDII connector.

17  Module installation procedure completed.

WARNING

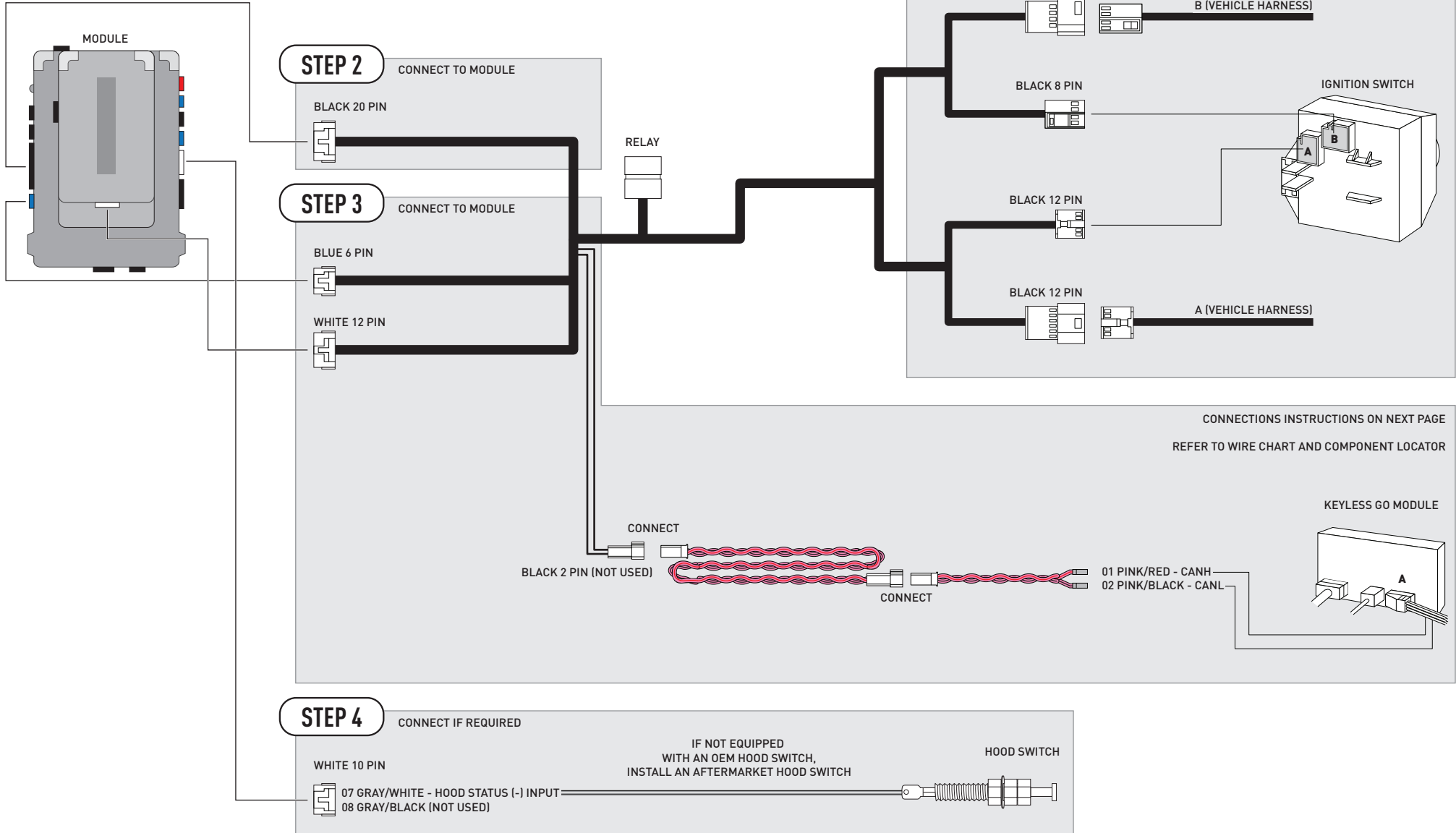
1-TO CONNECT THE MODULE: FOLLOW STEPS 1 TO 4
2-TO DISCONNECT THE MODULE: FOLLOW STEPS 4 TO 1



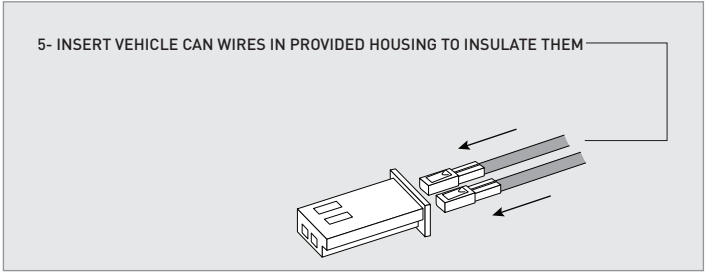
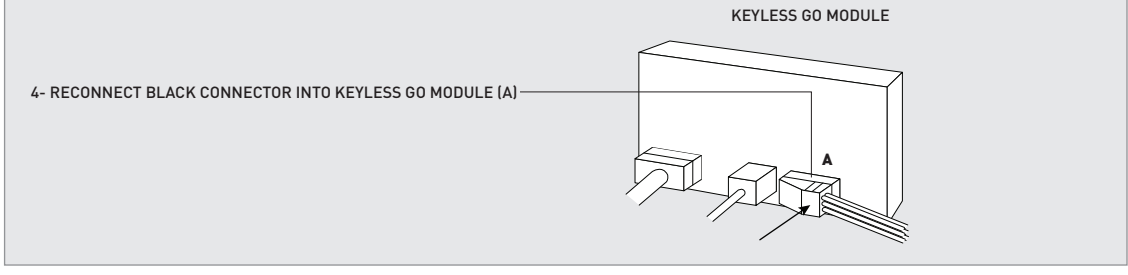
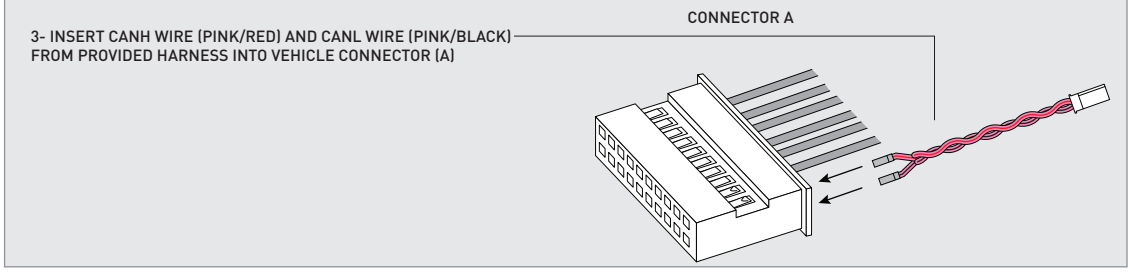
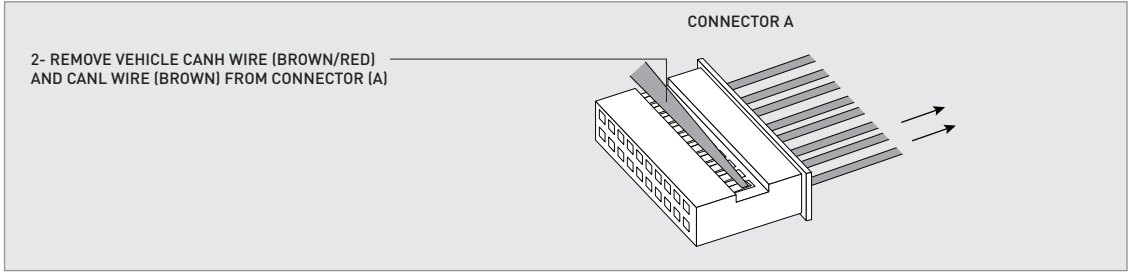
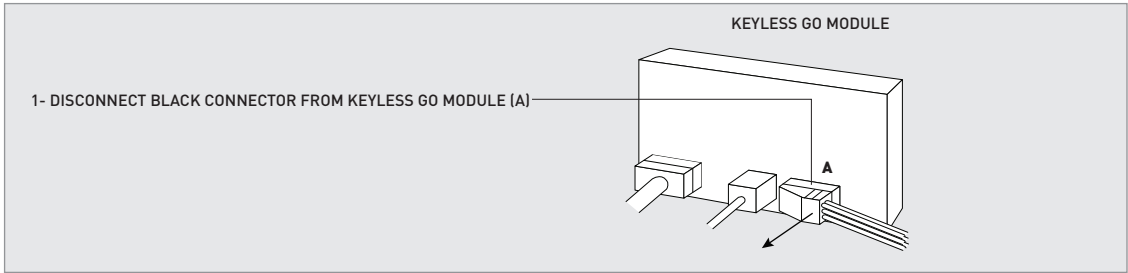
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
MERCEDDES-BENZ	GL-Class AMG PTS AT	13	CanH	~	Black	20 pin	~	Brown/Red	(DATA)	Keyless GO Module, under body panel beside rear left seat.	B
			CanL	~	Black	20 pin	~	Brown	(DATA)	Keyless GO Module, under body panel beside rear left seat.	B
	GL-Class PTS AT	13	CanH	~	Black	20 pin	~	Brown/Red	(DATA)	Keyless GO Module, under body panel beside rear left seat.	B
			CanL	~	Black	20 pin	~	Brown	(DATA)	Keyless GO Module, under body panel beside rear left seat.	B
	GL-Class PTS Diesel AT	13	CanH	~	Black	20 pin	~	Brown/Red	(DATA)	Keyless GO Module, under body panel beside rear left seat.	B
			CanL	~	Black	20 pin	~	Brown	(DATA)	Keyless GO Module, under body panel beside rear left seat.	B
	ML-Class AMG PTS AT	12-13	CanH	~	Black	20 pin	~	Brown/Red	(DATA)	Keyless GO Module, under rear left seat.	A
			CanL	~	Black	20 pin	~	Brown	(DATA)	Keyless GO Module, under rear left seat.	A
	ML-Class PTS AT	12-13	CanH	~	Black	20 pin	~	Brown/Red	(DATA)	Keyless GO Module, under rear left seat.	A
			CanL	~	Black	20 pin	~	Brown	(DATA)	Keyless GO Module, under rear left seat.	A
	ML-Class PTS Diesel AT	12-13	CanH	~	Black	20 pin	~	Brown/Red	(DATA)	Keyless GO Module, under rear left seat.	A
			CanL	~	Black	20 pin	~	Brown	(DATA)	Keyless GO Module, under rear left seat.	A

WARNING

1-TO CONNECT THE MODULE: FOLLOW STEPS 1 TO 4
2-TO DISCONNECT THE MODULE: FOLLOW STEPS 4 TO 1



INSTRUCTIONS TO CONNECT CAN WIRES TO KEYLESS GO MODULE



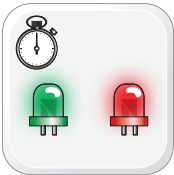
01 LED 1 is solid RED. Insert key into ignition.



02 Turn key to ON position.



03 Wait, LED 1 will turn solid GREEN then will turn solid RED.



>> WARNING: If LED 1 flashes RED/GREEN, turn ignition to OFF position. The vehicle is PTS. Follow appropriate PTS sections.



04 START vehicle for 30 seconds. LED 1 will remain solid RED.



05 Wait, LED 1 will turn solid GREEN then will turn OFF.



06 Turn key to OFF position. Remove key from ignition.



07 Module Programming Procedure completed.



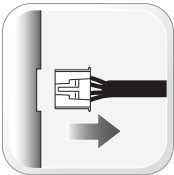
01 LED 1 is solid RED. Push start button to ON position.



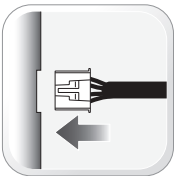
02 Wait, LED 1 will flash RED/GREEN.



03 Disconnect the 2 PIN Keyless GO connector from T-harness. The vehicle parking lights will begin to flash.



04 Reconnect the 2 PIN Keyless GO connector to T-harness. LED 1 will turn solid RED. The vehicle parking lights will stop flashing.



05 START vehicle for 30 seconds. LED 1 will remain solid RED.



06 Wait, LED 1 will turn solid GREEN then will turn OFF.



07 Push start button to OFF position.



08 Module Programming Procedure completed.



>>



NOTE: In Valet Mode, the Remote starter is not functional. Keyless entry, Lock and Unlock will remain functional. See RF kit user manual for alternate valet mode programming.

01



Time restriction. Complete next step within 7 seconds.

02



Cycle ignition ON five times [5x OFF/ON] rapidly. Parking Light will flash once [1x].

03



Wait, Parking Light will flash twice [2x], pause for 1.5 second, then will flash once [1x] to indicate that the valet mode is ON or twice [2x] to indicate that the valet mode is OFF.

04



Turn ignition to OFF position.

05




Valet Mode Programming Procedure completed.


>>

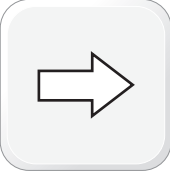


To exit valet mode: repeat steps 1 to 4 then START vehicle for 15 seconds.


AFTERMARKET REMOTE PROGRAMMING: NOTES	
<p>I All aftermarket remotes must be programmed to the RF-Kit.</p> <p>Refer to the RF-Kit user guide for aftermarket remote features and programming procedures.</p>	


>>  It is mandatory to exit the Module Navigation at the end of this procedure. Failure to exit the Module Navigation will drain vehicle battery. To exit the Module Navigation at any time: Follow STEP 13.


>>  Module must be programmed to the vehicle.


>>  Use the Module Navigation Chart on the next page.


01  Set ignition to OFF position.


02  TO ACCESS THE MENUS: Press and hold programming button until LED 1 turns solid GREEN.


03  IN THE MENUS: Press the programming button as many times as the menu number indicates. LED 1 will flash GREEN an equal amount of times continuously.


04  TO ACCESS THE OPTIONS: Press and hold programming button until LED 1 turns solid RED.


05  IN THE OPTIONS: Press the programming button as many times as the option number indicates. LED 1 will flash RED an equal amount of times continuously.

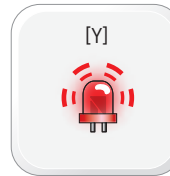
06  TO ACCESS THE SETTINGS: Press and hold programming button until LED 1 turns solid GREEN.


07  LED 1 will flash GREEN as many times as the current (or default) setting number, continuously.


08  IN THE SETTINGS: Press the programming button as many times as necessary to access your setting. LED 1 will flash GREEN an equal amount of times continuously.


09  To return to the MENUS: exit the Module Navigation and redo the Module Navigation Procedure.


10  To save and return to the OPTIONS: Press and hold programming button until LED 1 turns solid RED.

11  LED 1 will flash RED as many times as the current option number continuously.

12  Configure every other setting and proceed to step 13.

13  MANDATORY: EXIT MODULE NAVIGATION. Press and hold programming button for 7 seconds. LED 1 will flash RED rapidly. Release programming button. LED 1 will turn OFF.

14  Module navigation completed.

>>  Failure to exit the Module Navigation will drain vehicle battery.

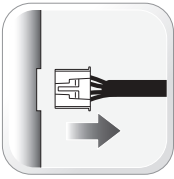
MODULE NAVIGATION CHART: NOTES	[X] MENUS	[Y] OPTIONS	[Z] SETTINGS														
I Default settings are listed in bold. II Make sure the option is covered on the vehicle before attempting to change the setting.	01 CONFIGURATION	01 DISARM/UNLOCK BEFORE START	<table border="1"> <tr><td>01</td><td>OFF</td></tr> <tr><td>02</td><td>ON</td></tr> </table>	01	OFF	02	ON										
		01	OFF														
		02	ON														
		02 RELOCK AFTER START	<table border="1"> <tr><td>01</td><td>OFF</td></tr> <tr><td>02</td><td>ON</td></tr> </table>	01	OFF	02	ON										
		01	OFF														
		02	ON														
		03 RELOCK AFTER SHUTDOWN	<table border="1"> <tr><td>01</td><td>OFF</td></tr> <tr><td>02</td><td>ON</td></tr> </table>	01	OFF	02	ON										
		01	OFF														
		02	ON														
		04 FORCE UNLOCK ALL ON FIRST PRESS	<table border="1"> <tr><td>01</td><td>OFF</td></tr> <tr><td>02</td><td>ON</td></tr> </table>	01	OFF	02	ON										
		01	OFF														
		02	ON														
		05 TAKEOVER	<table border="1"> <tr><td>01</td><td>ENABLE</td></tr> <tr><td>02</td><td>DISABLE*</td></tr> </table>	01	ENABLE	02	DISABLE*										
		01	ENABLE														
		02	DISABLE*														
06 SECURE TAKEOVER DELAY	<table border="1"> <tr><td>01</td><td>45 SEC</td></tr> <tr><td>02</td><td>90 SEC</td></tr> <tr><td>03</td><td>03 MIN</td></tr> <tr><td>04</td><td>04 MIN</td></tr> </table>	01	45 SEC	02	90 SEC	03	03 MIN	04	04 MIN								
01	45 SEC																
02	90 SEC																
03	03 MIN																
04	04 MIN																
07 FACTORY KEYLESS RS SEQUENCE	<table border="1"> <tr><td>01</td><td>DISABLE</td></tr> <tr><td>02</td><td>N/A</td></tr> <tr><td>03</td><td>LOCK + UNLOCK + LOCK</td></tr> <tr><td>04</td><td>LOCK + LOCK + LOCK</td></tr> </table>	01	DISABLE	02	N/A	03	LOCK + UNLOCK + LOCK	04	LOCK + LOCK + LOCK								
01	DISABLE																
02	N/A																
03	LOCK + UNLOCK + LOCK																
04	LOCK + LOCK + LOCK																
08 MODULE RUN TIME	<table border="1"> <tr><td>01</td><td>03 MIN</td></tr> <tr><td>02</td><td>05 MIN</td></tr> <tr><td>03</td><td>10 MIN</td></tr> <tr><td>04</td><td>15 MIN</td></tr> <tr><td>05</td><td>25 MIN</td></tr> <tr><td>06</td><td>30 MIN</td></tr> <tr><td>07</td><td>35 MIN</td></tr> <tr><td>08</td><td>15 MIN</td></tr> </table>	01	03 MIN	02	05 MIN	03	10 MIN	04	15 MIN	05	25 MIN	06	30 MIN	07	35 MIN	08	15 MIN
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02	05 MIN																
03	10 MIN																
04	15 MIN																
05	25 MIN																
06	30 MIN																
07	35 MIN																
08	15 MIN																
09 WAIT TO START DELAY	<table border="1"> <tr><td>01</td><td>02 SEC</td></tr> <tr><td>02</td><td>05 SEC</td></tr> <tr><td>03</td><td>08 SEC</td></tr> <tr><td>04</td><td>10 SEC</td></tr> <tr><td>05</td><td>15 SEC</td></tr> <tr><td>06</td><td>20 SEC</td></tr> <tr><td>07</td><td>25 SEC</td></tr> <tr><td>08</td><td>30 SEC</td></tr> </table>	01	02 SEC	02	05 SEC	03	08 SEC	04	10 SEC	05	15 SEC	06	20 SEC	07	25 SEC	08	30 SEC
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08	30 SEC																
10-15 N/A	<table border="1"> <tr><td>01</td><td>N/A</td></tr> </table>	01	N/A														
01	N/A																
02-07 Technical Support only	01 N/A	01 N/A															

*Vehicle will shutdown when a door is opened.

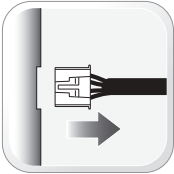
REMOTE STARTER ERROR CODES: NOTES	[X] NUMBER OF PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system.	03	Foot brake is ON.
	04	Hood is open.
II After a remote starter failure, the parking lights will flash [X] number times to indicate an error code. See table.	05	Engine tach signal is lost.
	06	System is in Valet Mode.
	07	Vehicle is moving (VSS).
	08	Glow plug timeout error.
	09	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.
	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	16	CAN communication failure during RS sequence.

TEST MODULE		LED 1 STATUS	DIAGNOSTIC
I	DURING PROGRAMMING	Flashing RED	Missing/wrong information from firmware or vehicle.
		Solid RED	Module waiting for more vehicle information.
		Flashing GREEN	Additional steps required to complete module programming.
		Solid GREEN then OFF	Module correctly programmed.
		OFF	No activity or module already programmed.
II	DURING REMOTE START	Flashing RED	Module incorrectly programmed.
		Solid RED	Module incorrectly programmed.
		Flashing GREEN	Module correctly programmed and operational.
		Solid GREEN then OFF	Reset in progress.
		OFF	Invalid ground when running status from remote starter.
III	WITH IGNITION OFF	Flashing RED	Module incorrectly programmed or connected.
		Solid RED	Module not programmed. Waiting for more vehicle information.
		Flashing GREEN	False ground when running status from remote starter.
		Solid GREEN then OFF	Reset in progress.
		OFF	Module at rest and ready for a remote start sequence.

01 Disconnect all connectors from module except the BLACK 20-PIN connector.



02 Disconnect the BLACK 20-PIN connector.



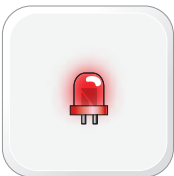
03 PRESS AND HOLD programming button while connecting the BLACK 20-PIN connector.



04 Wait, LED 1 will flash RED. RELEASE programming button.



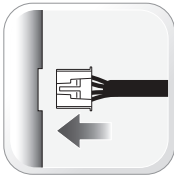
05 LED 1 will turn RED for 2 seconds.



06 Module RESET completed.



07 Reconnect all connectors.



08 Repeat programming procedure.



>> Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.



>> All vehicle doors must be closed and locked prior to remote start sequence.



01 Time restriction. Complete steps 2 to 6 within 45 seconds.



02 Unlock driver door.



03 Open driver door and enter vehicle.



04 Close driver door.



05 Push start button once [1x] to ON position OR turn key to ON position.



06 Press and release BRAKE pedal.



07 Take over procedure completed.



>> Failure to follow procedure will result in vehicle engine shutdown.



CHECKLIST	
01	WARNING: Vehicle engine will start many times. Test in a well ventilated area.
02	Open driver door window for easy vehicle access.
03	Enter vehicle. Start the vehicle and let it run for 15 seconds.
04	Stop the vehicle and exit vehicle.
05	Close all vehicle doors, hood and trunk.
06	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	QUESTION 1: Does the vehicle remote start?
<input type="checkbox"/>	YES: Go to step 7.
<input type="checkbox"/>	NO: The module doesn't detect OEM remote lock button from the vehicle communication network. Check all connections, repeat step 6 and call technical support if the problem persists.
07	Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle.
	QUESTION 2: Does the vehicle shut down?
<input type="checkbox"/>	YES: Go to step 8.
<input type="checkbox"/>	NO: Repeat step 7. If the problem persists, unlock the door using the OEM keyfob, enter vehicle and press brake pedal to shut down the vehicle and call technical support.
08	Open hood.
	QUESTION 3: Is the orange warning sticker "Sticker 1" placed under the hood?
<input type="checkbox"/>	YES: Leave hood open and go to step 9.
<input type="checkbox"/>	NO: Put the mandatory orange warning sticker "Sticker 1", leave hood open and go to step 9.
09	Close all doors.
10	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	QUESTION 4: Does the vehicle remote start?
<input type="checkbox"/>	YES: Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle. Go to question 5.
<input type="checkbox"/>	NO: Go to step 11.
	QUESTION 5: Is the vehicle equipped with a factory hood switch? (Inside hood latch)
<input type="checkbox"/>	YES: The module does NOT detect the hood signal from the vehicle communication network. Call technical support.
<input type="checkbox"/>	NO: Install the mandatory hood switch included in the kit. Repeat installation checklist.
11	Close hood.
12	Enter vehicle. Do NOT press brake pedal.
13	Close all doors.
14	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
15	Wait for the vehicle to start.
16	Press brake pedal.
	QUESTION 6: Does the vehicle shut down?
<input type="checkbox"/>	YES: Go to step 17.
<input type="checkbox"/>	NO: The module does NOT detect the brake pedal signal from the vehicle communication network. Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle and call technical support.

CHECKLIST	
17	Exit vehicle.
18	Close all doors.
19	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
20	Wait for the vehicle to start.
	QUESTION 7: Is the vehicle equipped with a keyless authorization system (Keyless Go) ?
<input type="checkbox"/>	YES: Touch the exterior driver door handle to unlock door using the keyless authorization system (Keyless Go). Within 45 seconds, go to step 21.
<input type="checkbox"/>	NO: Press UNLOCK button once [1x] on the OEM keyfob. Within 45 seconds, go to step 21.
21	Open driver door.
	QUESTION 8: Does the vehicle shut down?
<input type="checkbox"/>	YES: The module does NOT detect the unlock signal from the vehicle communication network. Call technical support.
<input type="checkbox"/>	NO: Go to step 22.
22	Enter vehicle.
	QUESTION 9: Is the vehicle equipped with a keyless authorization system (Keyless Go) ?
<input type="checkbox"/>	YES: Push vehicle start button once [1x]. Go to step 23.
<input type="checkbox"/>	NO: Insert key into ignition and turn key to ON position. Go to step 23.
23	Press and release brake pedal.
	QUESTION 10: Does the vehicle shut down?
<input type="checkbox"/>	YES: Repeat this procedure from step 3. If the problem persists, call technical support.
<input type="checkbox"/>	NO: Go to step 24.
24	Shut down the vehicle.
25	Installation checklist completed.