



INSTALL GUIDE

COM-IDS(RS)-BZ1B-[ADS-BZ1]-EN

DOCUMENT NUMBER
15768

REVISION DATE
20140807

FIRMWARE
COM-IDS(RS)-BZ1B-[ADS-BZ1]

HARDWARE
ADS-BZ1

ACCESSORIES
ADS-USB (REQUIRED)
COMPATIBLE RF-KIT (OPTIONAL)
DRONE MOBILE DR-2000 (OPTIONAL)
ADS-TOOLS-MB01 (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																			
				REMOTE START FROM OEM REMOTES	SECURE TAKEOVER	DATA IMMOBILIZER BYPASS	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	PRIORITY UNLOCK	TRUNK/HATCH RELEASE	PARKING LIGHT CTRL	HEATED SEATS CTRL	VENTILATED SEATS CTRL	RAP SHUTDOWN CTRL	TACHOMETER STATUS MONITORING	BRAKE PEDAL STATUS MONITORING	VSS STATUS MONITORING	GLOW PLUG STATUS MONITORING	DOOR STATUS MONITORING	TRUNK STATUS MONITORING	HOOD STATUS MONITORING*
MERCEDES-BENZ	CL Class PTS AT	07-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	CL Class STD key AT	07-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	S Class PTS AT	07-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	S Class STD key AT	07-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	S Class Diesel PTS AT	07-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	S Class Diesel STD key AT	07-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

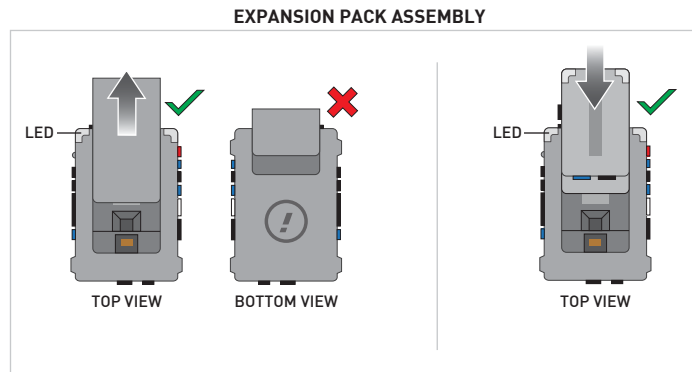
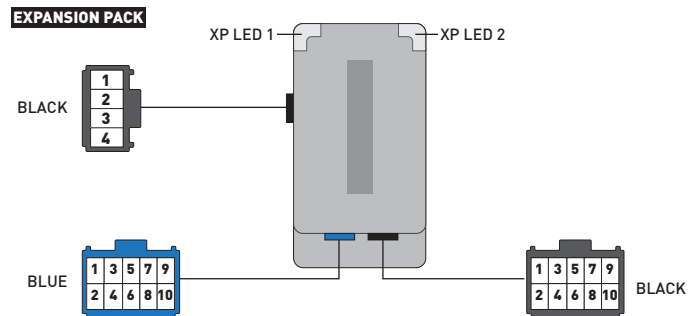
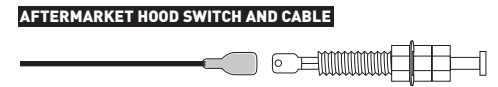
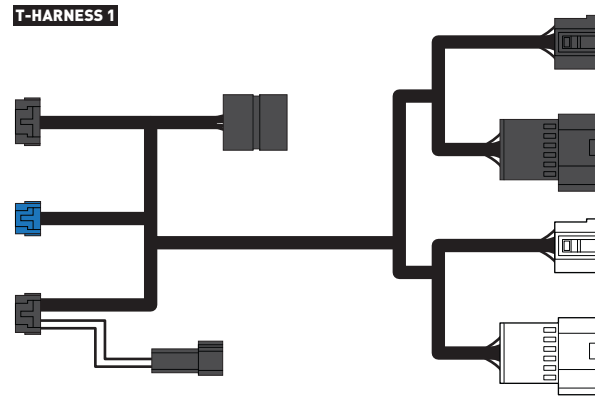
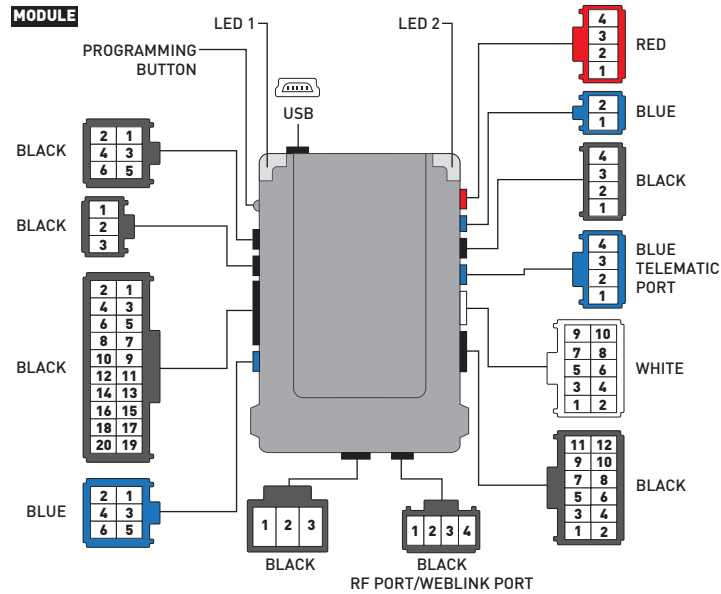
NOTES

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

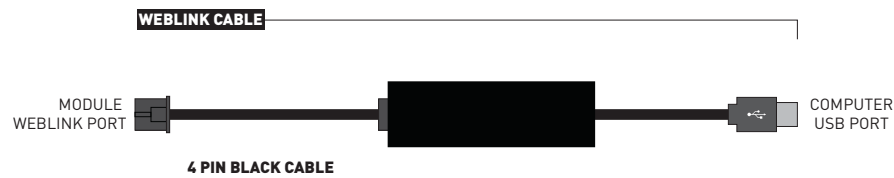
II All the covered Push To Start (PTS) vehicles are equipped with a keyless authorization system called "Keyless Go".

* If equipped with a factory hood switch.

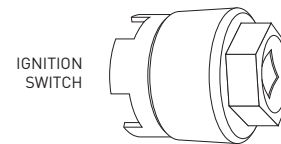
BOX CONTENTS



WEBLINK CABLE (required accessory sold separately)

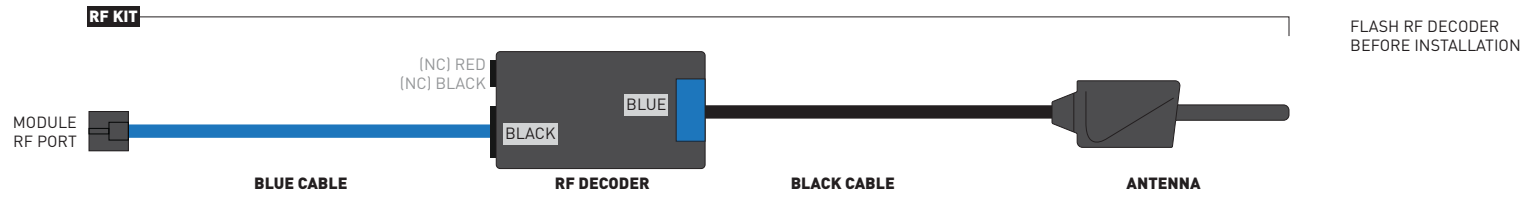


ELECTRONIC IGNITION SWITCH REMOVAL TOOL (accessory sold separately)

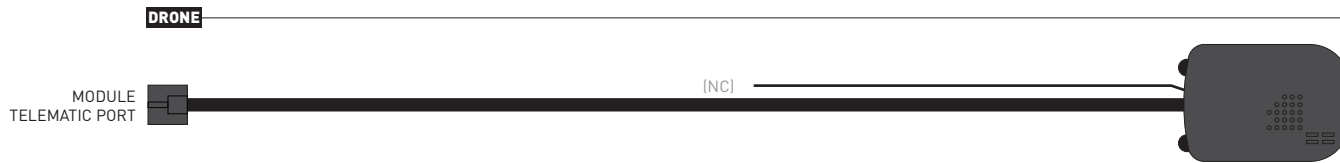


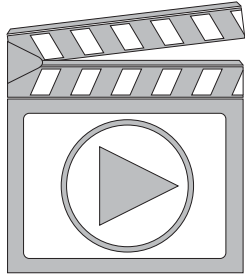
ADS-TOOLS-MB01 OR
MERCEDES BENZ P/N 639 589 01 07 00

RF KIT (Visit our website to see if this accessory is included with your product)



TELEMATIC KIT (accessory sold separately)



IMPORTANT**INSTALL VIDEO GALLERY AVAILABLE ONLINE**

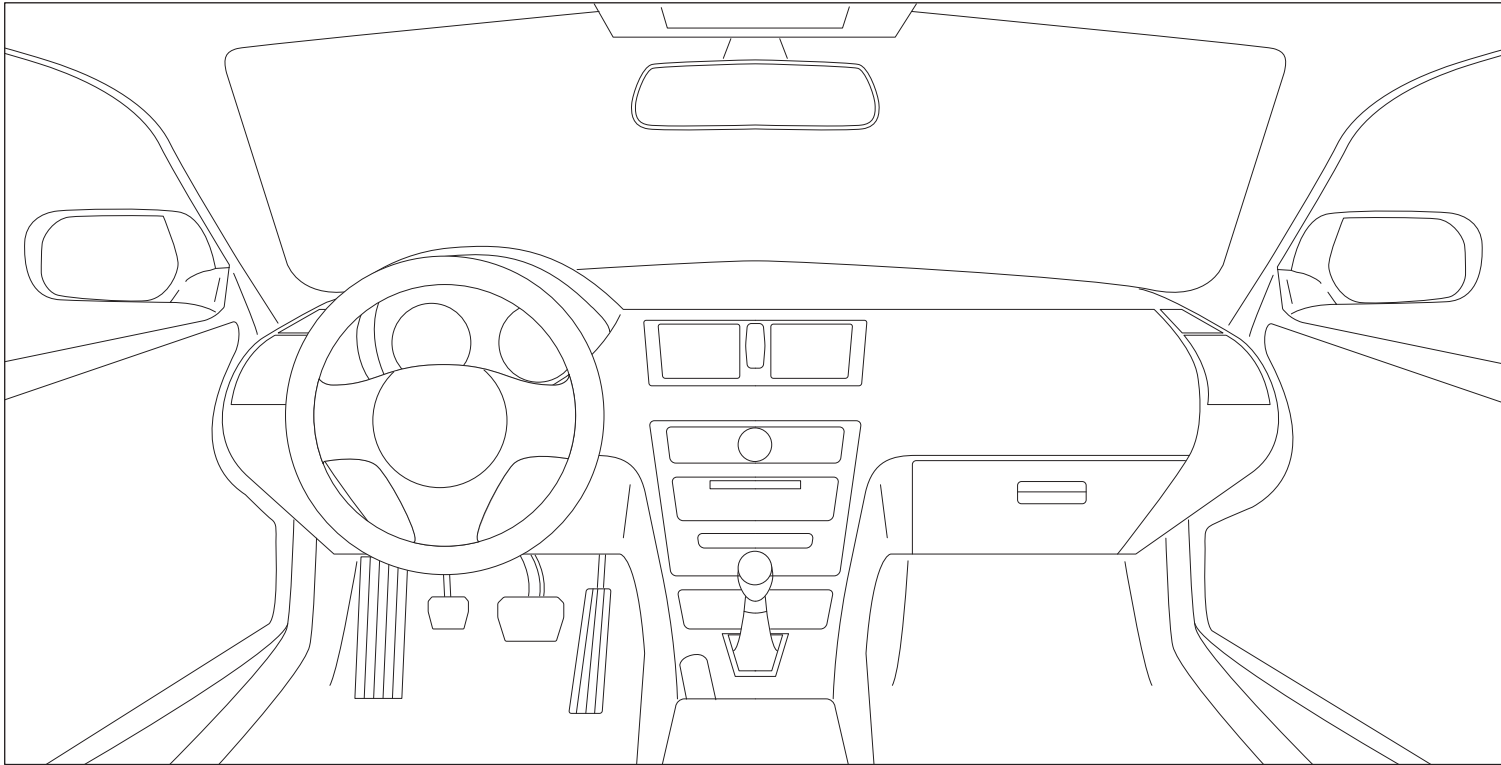
Before installing this product, consult our Install Video Gallery and watch:

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

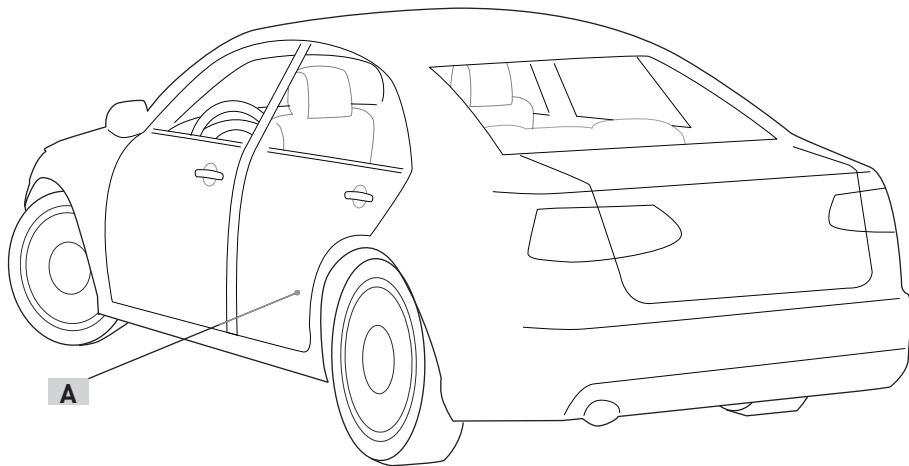
Simply visit our forum and register at

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

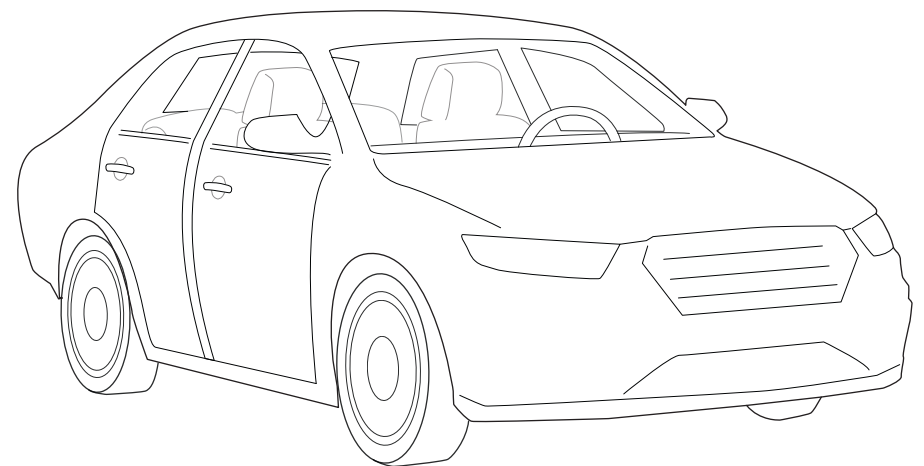
INTERIOR VIEW




DRIVER SIDE VIEW





PASSENGER SIDE VIEW

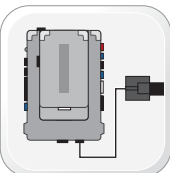


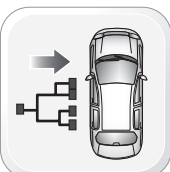
01  START the vehicle. Verify all vehicle functionalities. If the vehicle displays error messages or any malfunction: stop the installation and service the vehicle.


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.

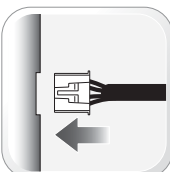
07  WARNING: Any vehicle harness that is disconnected during installation, must be re-connected before performing any system tests. Failure to comply will result in vehicle displaying error messages. An OEM scantool will be required to clear the error messages.

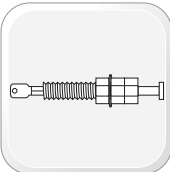
08  START the vehicle. Verify all vehicle functionalities.

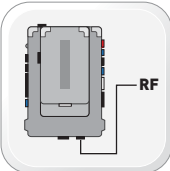
09  WARNING: If the vehicle displays error messages or any malfunction, stop the installation, verify every connection and if the problem persists, call technical support.

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.

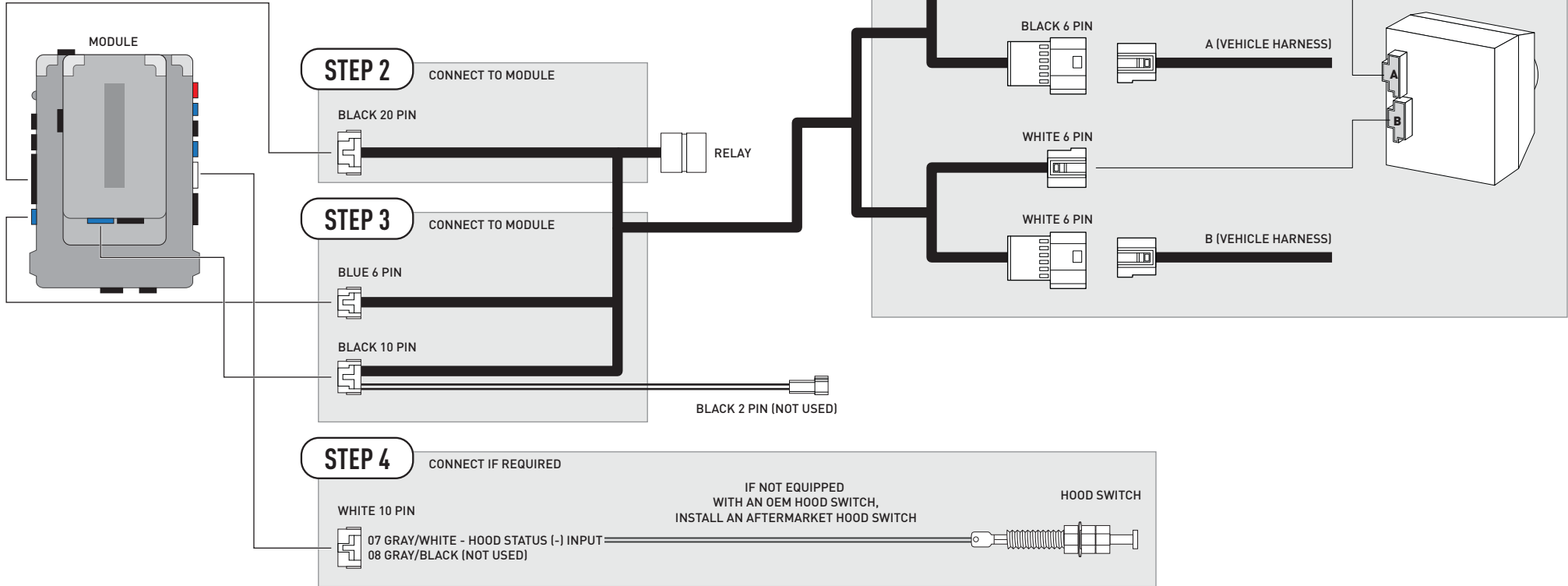
15  If required, connect a compatible Telematics Device to the TELEMATIC port of the module.

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

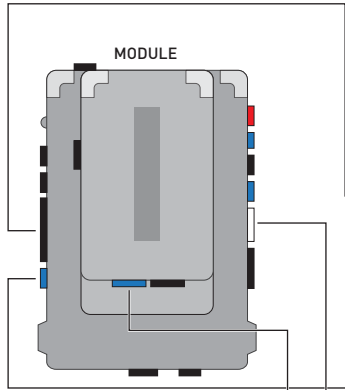
1-TO CONNECT THE MODULE: FOLLOW STEPS 1 TO 4
2-TO DISCONNECT THE MODULE: FOLLOW STEPS 4 TO 1



MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
MERCEDES-BENZ	CL Class PTS AT	07-13	CanH	~	Black	02 pin	01	Brown/Red	(DATA)	Behind carpet, under driver seat	A
			CanL	~	Black	02 pin	02	Brown	(DATA)	Behind carpet, under driver seat	A
	S Class PTS AT	07-13	CanH	~	Black	02 pin	01	Brown/Red	(DATA)	Behind carpet, under driver seat	A
			CanL	~	Black	02 pin	02	Brown	(DATA)	Behind carpet, under driver seat	A
	S Class Diesel PTS AT	07-13	CanH	~	Black	02 pin	01	Brown/Red	(DATA)	Behind carpet, under driver seat	A
			CanL	~	Black	02 pin	02	Brown	(DATA)	Behind carpet, under driver seat	A

WARNING

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



STEP 2

CONNECT TO MODULE

BLACK 20 PIN

STEP 3

CONNECT TO MODULE

BLUE 6 PIN

BLACK 10 PIN

RELAY

STEP 1

CONNECT TO VEHICLE
START VEHICLE WITH OEM KEYFOB TO TEST CONNECTIONS

BLACK 6 PIN

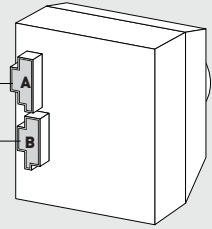
BLACK 6 PIN

WHITE 6 PIN

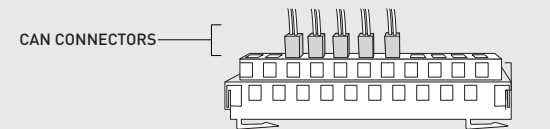
WHITE 6 PIN

A (VEHICLE HARNESS)

B (VEHICLE HARNESS)



REFER TO WIRE CHART
REFER TO COMPONENT LOCATOR
SEE MODULE PROGRAMMING PROCEDURE - PTS
TO IDENTIFY THE REQUIRED CAN CONNECTOR.
ONCE IDENTIFIED, DISCONNECT IT FROM THE CAN
JUNCTION CONNECTOR AND CONNECT IT TO C1.



CAN JUNCTION CONNECTOR

CONNECT
BLACK 2 PIN

01 PINK/RED - CANH
02 PINK/BLACK - CANL

CONNECT
C1

01 CANH
02 CANL

IF THE REQUIRED CAN CONNECTOR DOES NOT FIT IN C1:
SEE NEXT PAGE FOR INSTRUCTIONS

STEP 4

CONNECT IF REQUIRED

WHITE 10 PIN

07 GRAY/WHITE - HOOD STATUS (-) INPUT
08 GRAY/BLACK (NOT USED)

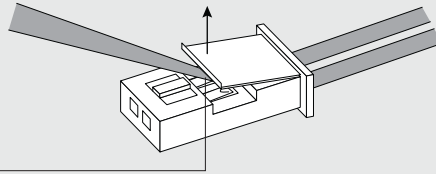
IF NOT EQUIPPED
WITH AN OEM HOOD SWITCH,
INSTALL AN AFTERMARKET HOOD SWITCH

HOOD SWITCH

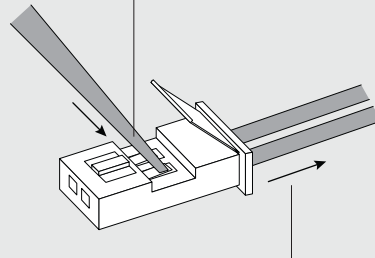


INSTRUCTIONS TO CHANGE THE HOUSING OF CAN WIRES
(ONLY IF THE CAN CONNECTOR DOES NOT FIT IN C1)

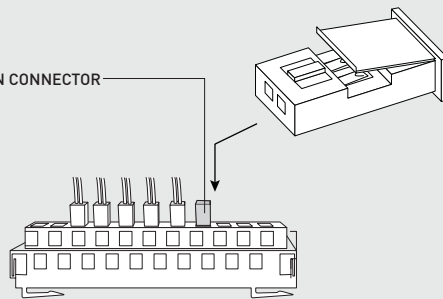
1- RELEASE RETAINING CLIP OF CAN CONNECTOR.



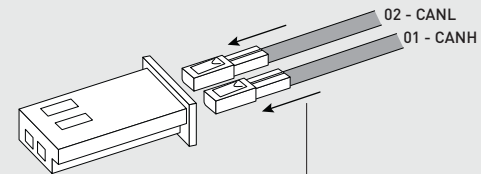
2- RELEASE LOCKING MECHANISM.
REMOVE CAN WIRES FROM HOUSING.



3- INSERT EMPTY HOUSING IN CAN JUNCTION CONNECTOR
(TO AVOID LOSING IT).



4- INSERT CAN WIRES IN PROVIDED HOUSING.
CONNECT IT WITH C1 HARNESS,
AS SHOWN IN WIRING DIAGRAM.



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 OFF.



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



04 START vehicle for 15 seconds. LED 1 will turn 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.

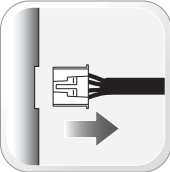



>>  One of the connectors of the CAN junction connector controls the keyless authorization system (Keyless Go). The following procedure will allow the module to identify the required CAN connector.


>>  Have the CAN junction connector accessible. Identify every CAN connector whose CanH and CanL wires match the colors listed in the WIRE CHART.


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


02  Wait, LED 1 will flash RED/GREEN.


03  Disconnect the first connector of the CAN junction connector whose CanH and CanL wires match the colors listed in the WIRE CHART. Wait 5 seconds.

>>  If the parking lights flash, the required connector is found. Connect it to the C1 connector as shown in the WIRING DIAGRAM and go to step 5.

>>  If the parking lights do NOT flash, the required connector is NOT found. Reconnect it to the CAN junction connector and repeat step 4 with another connector.

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

05  START vehicle for 15 seconds. LED 1 will turn 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 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.

>>



WARNING: Program aftermarket remotes before usage. A maximum of four [4x] aftermarket remotes per system.

01



Time restriction. Complete next step within 7 seconds.

02



Cycle ignition ON five times [5x OFF/ON] rapidly.

03



Parking Light will flash once [1x].

04



Time restriction. Complete next step within 5 seconds from previous step.

05



Press once [1x] on LOCK button of aftermarket remote.

06



Parking Light will flash once [1x].

>>



To program additional remotes: repeat steps 4 to 6 using each additional remote.

07



Wait, Parking Light will flash twice [2x].

08



Turn ignition to OFF position.

09





START vehicle for 15 seconds.

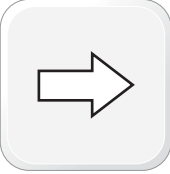
10



Aftermarket Remote Programming Procedure completed.


>>  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.

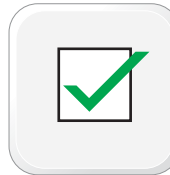
09  To return to the MENUS: exit the Module Navigation and redo the Module Navigation Procedure.


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	01 OFF 02 ON
		02 RELOCK AFTER START	01 OFF 02 ON
		03 RELOCK AFTER SHUTDOWN	01 OFF 02 ON
		04 FORCE UNLOCK ALL ON FIRST PRESS	01 OFF 02 ON
		05 TAKEOVER	01 ENABLE 02 DISABLE*
		06 SECURE TAKEOVER DELAY	01 45 SEC
			02 90 SEC
			03 03 MIN
			04 04 MIN
		07 FACTORY KEYLESS RS SEQUENCE	01 DISABLE
			02 N/A
			03 LOCK + UNLOCK + LOCK
			04 LOCK + LOCK + LOCK
		08 MODULE RUN TIME	01 03 MIN
			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	01 02 SEC		
	02 05 SEC		
	03 08 SEC		
	04 10 SEC		
	05 15 SEC		
	06 20 SEC		
	07 25 SEC		
	08 30 SEC		
10-15 N/A	01 N/A		
02-07 Technical Support only	01 N/A	01 N/A	

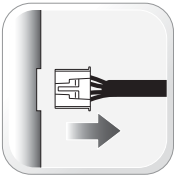
*Vehicle will shutdown when a door is opened.

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.	01	Engine running.
	02	Key in ignition at ON position.
II After a remote starter failure, the parking lights will flash three [3x] times, then will flash [X] number times to indicate an error code. See table.	03	N/A
	04	Trunk is open.
	05	Foot brake is ON.
	06	Hood is open.
	07	N/A
	08	Tach failure.
	09	N/A
	10	System is in Valet Mode.
	11	CAN communication failure
	12	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.

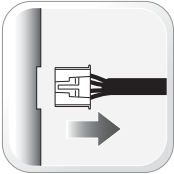
REMOTE STARTER SHUTDOWN ERROR CODES: NOTES	[Y] NUMBER OF PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system.	01	Engine tach signal is lost.
	02	N/A
II If the engine shuts down after a remote starter sequence: Press and hold the Trunk button and the Start button at the same time for 2.5 seconds when using a 1-WAY remote. OR Press once [1x] on button "4" when using a 2-WAY remote. The parking lights will flash four [4x] times, then will flash [Y] number times to indicate an error code. See table.	03	Foot brake is ON.
	04	Hood is open.
	05	Engine RPM limiter is ON.
	06	Glow plug timeout error.
	07	Vehicle is moving (VSS).
	08	Check engine warning light is ON.
	09	Low fuel warning light is ON.
	10	N/A
	11	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.



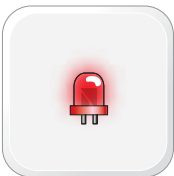
03 PRESS AND HOLD programming button while connecting the BLACK 20-PIN connector.



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



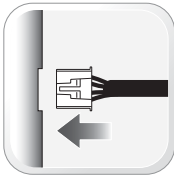
05 LED 1 will turn RED for 2 seconds.



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.