iDATASTART™

INSTALL GUIDE
DIR-IDS(RS)-BZ2A-[ADS-BZ2]-EN

DOCUMENT NUMBER
13206

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20131121

FIRMWARE
DIR-IDS(RS)-BZ2A-[ADS-BZ2]

HARDWARE
ADS-BZ2

ACCESSORIES
ADS-USB (REQUIRED)
DIRECTED XL-202 RF-KIT & ADS-HRN(RS)-XL02 (OPTIONAL)
DIRECTED SMARTSTART & ADS-HRN(RS)-SM01 (OPTIONAL)
ADS-TOOLS-MB01 (OPTIONAL)

NOTICE The manufacturer will accept no responsability 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)
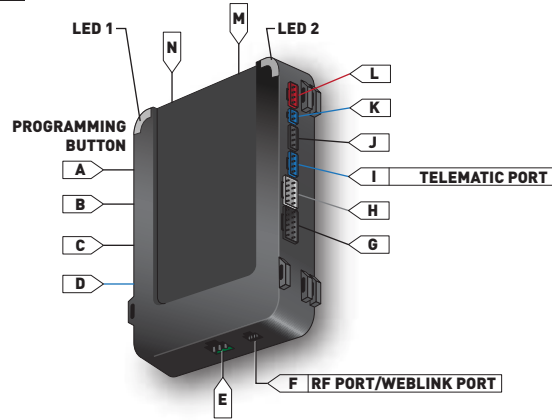4- Use accessories accordingly (accessories are sold separately)

ADS AUTOMOTIVE DATA SOLUTIONS

NOTES

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

MAKE	MODEL	YEAR	INSTALL TYPE	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	B Class STD key AT	05-11	1	•	•	•	•	•	•	•	•		•			•	•	•	•		•	•	•
	C Class Sedan STD key AT	03-07	1	•	•	•	•	•	•	•	•	•	•			•	•	•	•		•	•	•
	C Class Coupe STD key AT	03-06	1	•	•	•	•	•	•	•	•		•			•	•	•	•		•	•	•
	CLK Class STD key AT	04-09	1	•	•	•	•	•	•	•	•	•	•			•	•	•	•		•	•	•
	CLS Class STD key AT	04-11	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•
	E Class STD key AT	04-09	1	•	•	•	•	•	•	•	•	•	•			•	•	•	•		•	•	•
	E Class Diesel STD key AT	04-09	1	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•
	G Class STD key AT	05-12	1	•	•	•	•	•	•	•	•		•			•	•	•	•		•	•	•
	SLK Class STD key AT	05-11	1	•	•	•	•	•	•	•	•	•	•			•	•	•	•		•	•	•

* If equipped with a factory hood switch.

BOX CONTENTS

MODULE

LED 1
LED 2
M
N
L
K
J
I — TELEMATIC PORT
A
B
C
D
H
G
PROGRAMMING BUTTON
E
F — RF PORT/WEBLINK PORT

EXPANSION PACK

XP LED 1
XP LED 2
O
P
Q

T-HARNESS 1
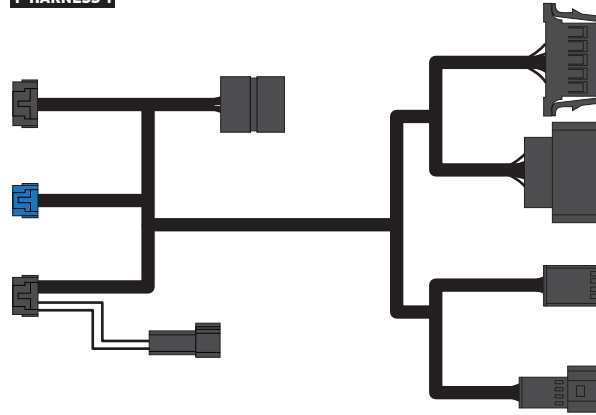
H-HARNESS 1

10 PIN WHITE CONNECTOR

12 PIN BLACK CONNECTOR

AFTERMARKET HOOD SWITCH AND CABLE

STICKER 1

WARNING!
THIS VEHICLE IS EQUIPPED WITH A REMOTE STARTER
DISABLE PRIOR TO VEHICLE MAINTENANCE

STICKER 2

THIS VEHICLE IS EQUIPPED WITH A REMOTE STARTER

TECHNICAL INFORMATION XXX.XXX.XXXX RENSEIGNEMENTS TECHNIQUES

CE VÉHICULE EST ÉQUIPÉ D'UN DÉMARREUR À DISTANCE
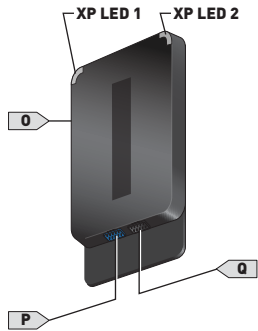
WEBLINK CABLE (required accessory sold separately)

WEBLINK CABLE

MODULE WEBLINK PORT

COMPUTER USB PORT

4 PIN BLACK CABLE
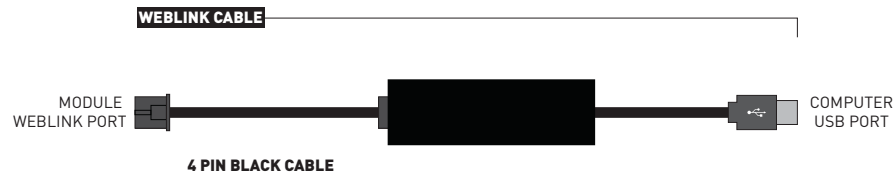
ELECTRONIC IGNITION SWITCH REMOVAL TOOL (accessory sold separately)

IGNITION SWITCH
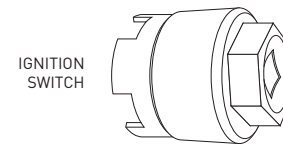
ADS-TOOLS-MB01 OR
MERCEDEZ BENZ P/N 639 589 01 07 00

RF KIT (accessories sold separately)

ADS-HRN(RS)-XL02

DIRECTED XL202 RF KIT

MODULE
RF PORT

XL202 RF DECODER

XL202 ANTENNA
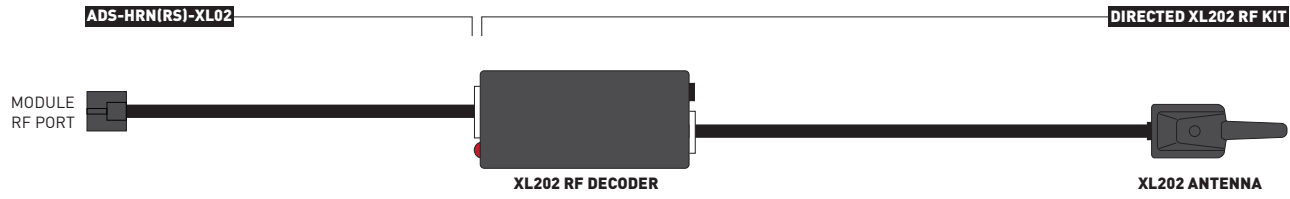
TELEMATIC KIT (accessories sold separately)

ADS-HRN(RS)-SM01

DIRECTED SMARTSTART

MODULE
TELEMATIC PORT

(NC)

(NC)

(NC)
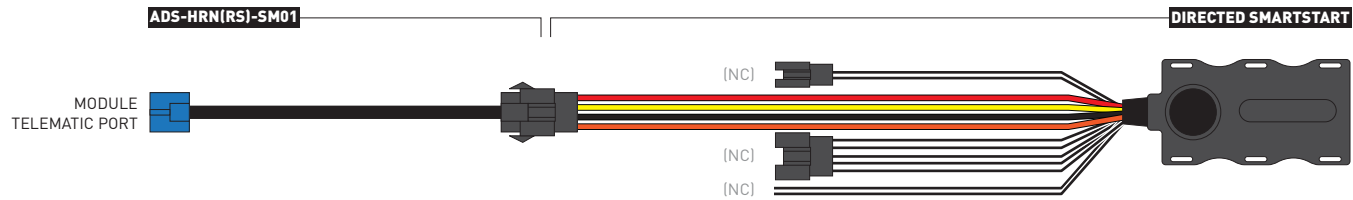
IMPORTANT	INSTALL VIDEO GALLERY AVAILABLE ONLINE
	Before installing this product, consult our Install Video Gallery and watch: • Vehicle Disassembly Procedure videos • Module Connection Procedures videos • Module Programming Procedures videos Simply visit our forum and register at http://www.12voltdata.com/forum/viewtopic.php?f=340&t=9683&sid=a61772b486e4584ad6f058b171ffa425
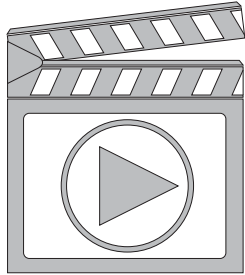
01 START the vehicle. Verify all vehicle functionalities. If the vehicle displays error messages or any malfunction: stop the installation and service the vehicle.

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 (F 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.

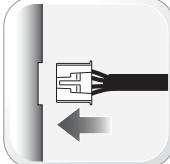**07** WARNING: Any vehicle harness that is disconnected during installation, must be re-connected before performing any system tests. Failure to comply will result in vehicle displaying error messages. An OEM scantool will be required to clear the error messages.

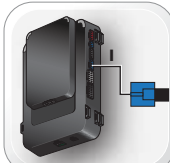**08** START the vehicle. Verify all vehicle functionalities.

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.
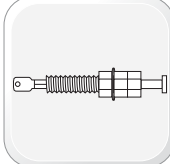
10 Turn OFF the vehicle.

11 Connect the C 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 required, connect a compatible RF Kit, as shown in STEP 4 of the WIRING DIAGRAM.

14 If required, connect a compatible Telematics Device, as shown in STEP 4 of the WIRING DIAGRAM.

15 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.

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.

MODULE

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

N M
O L
A K
B J
C I TELEMATIC PORT
D H
   G
P Q

F RF PORT/WEBLINK PORT
E

STEP 1:
CONNECT THE FOLLOWING TO THE VEHICLE
START THE VEHICLE WITH THE OEM KEYFOB
TO TEST THE CONNECTIONS

A1
A2
B1
B2

IGNITION SWITCH

A1 CONNECTOR - BLACK

A2 HARNESS

B1 CONNECTOR - WHITE

B2 HARNESS

STEP 2:
CONNECT THE FOLLOWING TO THE MODULE

C

BLACK 20 PIN

RELAY

STEP 3:
CONNECT THE FOLLOWING TO THE MODULE

D

BLUE 06 PIN

Q

BLACK 10 PIN

BLACK 2 PIN (NC)

STEP 4:
CONNECT THE FOLLOWING IF REQUIRED

H

07 GRAY/WHITE - HOOD STATUS (-) INPUT
08 GRAY/BLACK (NC)

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

AFTERMARKET HOOD SWITCH (-)

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.

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.

	CHECKLIST
01	WARNING: Vehicle engine will start many times. Test in a well ventillated 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?
☐	YES: Go to step 7.
☐	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?
☐	YES: Go to step 8.
☐	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	Unlock and open driver door.
09	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	QUESTION 3: Does the vehicle remote start?
☐	YES: The module does NOT detect the door 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.
☐	NO: Go to step 10.
10	Open hood.
	QUESTION 4: Is the orange warning sticker "Sticker 1" placed under the hood?
☐	YES: Leave hood open and go to step 11.
☐	NO: Put the mandatory orange warning sticker "Sticker 1", leave hood open and go to step 11.
11	Close all doors.
12	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	QUESTION 5: Does the vehicle remote start?
☐	YES: Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle. Go to question 6.
☐	NO: Go to step 13.
	QUESTION 6: Is the vehicle equipped with a factory hood switch? (Inside hood latch)
☐	YES: The module does NOT detect the hood signal from the vehicle communication network. Call technical support
☐	NO: Install the mandatory hood switch included in the kit. Repeat installation checklist.
13	Close hood.
14	Enter vehicle. Do not press brake pedal.
15	Close all doors.
16	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
17	Wait for the vehicle to start.
18	Press brake pedal.
	QUESTION 7: Does the vehicle shut down?
☐	YES: Go to step 19.
☐	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	
	CHECKLIST
19	Exit vehicle.
20	Close all doors.
21	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
22	Wait for the vehicle to start.
23	Press UNLOCK button once [1x] on the OEM keyfob. Within 45 seconds, go to step 24.
24	Open driver door.
	QUESTION 8: Does the vehicle shut down?
☐	YES: The module does NOT detect the unlock signal from the vehicle communication network. Call technical support.
☐	NO: Go to step 25.
25	Enter vehicle.
26	Insert key into ignition and turn key to ON position.
27	Press and release brake pedal.
	QUESTION 9: Does the vehicle shut down?
☐	YES: Repeat procedure from step 3. If the problem persists, call technical support.
☐	NO: Go to step 28.
28	Shut down the vehicle.
29	Installation checklist 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.

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

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].

OFF   ACC   **ON**   START

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.

OFF   ACC   ON   START

05 Valet Mode Programming Procedure completed.

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

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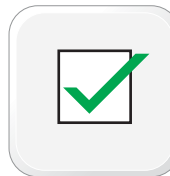
09 To return to the MENUS: exit the Module Navigation and redo the Module Navigation Procedure.

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. II After a remote starter failure, the parking lights will flash [X] number times to indicate an error code. See table.	03	Foot brake is ON.
	04	Hood is open.
	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.
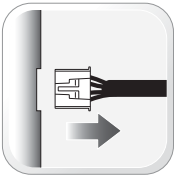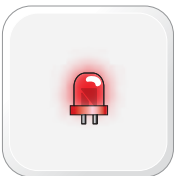
02 Disconnect the BLACK 20-PIN connector.
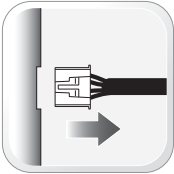
03 PRESS AND HOLD programming button while connecting the BLACK 20-PIN connector.

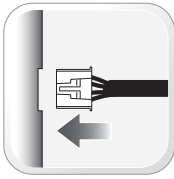**04** Wait, LED 1 will flash RED. RELEASE programming button.

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.