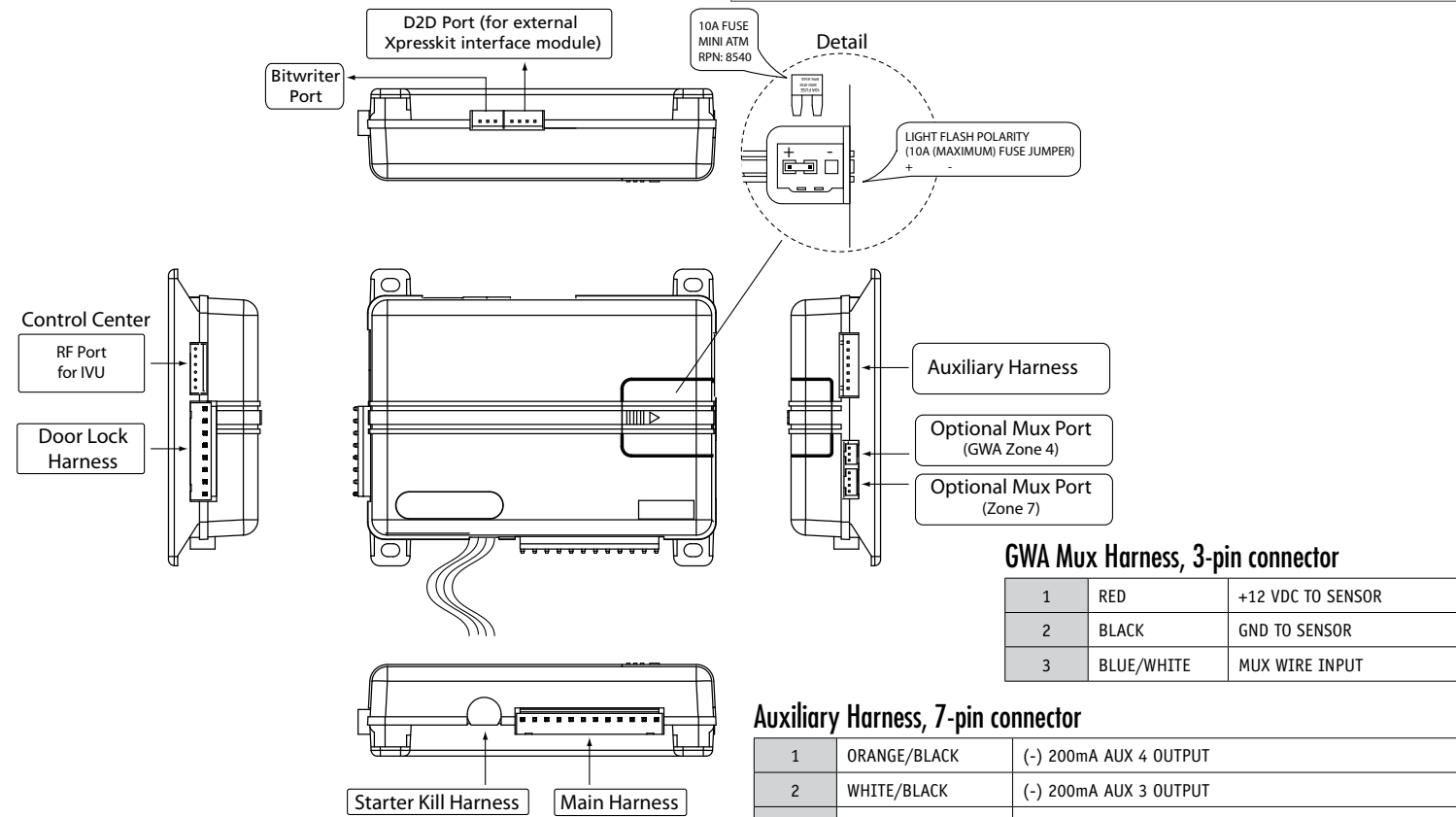# Quick Reference Install Guide
Responder LCD, LED & 1-way systems

Wiring Connections

GWA Mux Harness, 3-pin connector

1	RED	+12 VDC TO SENSOR
2	BLACK	GND TO SENSOR
3	BLUE/WHITE	MUX WIRE INPUT

Auxiliary Harness, 7-pin connector

1	ORANGE/BLACK	(-) 200mA AUX 4 OUTPUT
2	WHITE/BLACK	(-) 200mA AUX 3 OUTPUT
3	VIOLET/BLACK	(-) 200mA AUX 2 OUTPUT
4	LIGHT GREEN/BLACK	(-) 200mA FACTORY ALARM DISARM OUTPUT
5	YELLOW	(+) IGNITION INPUT
6	BROWN	(-) 200mA HORN HONK OUTPUT
7	GREY	N/O or N/C (-) HOOD PIN SWITCH INPUT

Main Harness, 12-pin connector

1	RED/WHITE	(-) 200mA TRUNK RELEASE OUTPUT
2	RED	(+)12VDC CONSTANT INPUT
3	BROWN	(+) SIREN OUTPUT
4	WHITE/BROWN	PARKING LIGHT ISOLATION WIRE - PIN 87a of onboard relay
5	BLACK	(-) CHASSIS GROUND
6	VIOLET	(+) DOOR TRIGGER INPUT
7	BLUE	(-) TRUNK PIN/ INSTANT TRIGGER INPUT (N/C OR N/O)
8	GREEN	(-) DOOR TRIGGER INPUT (N/C OR N/O)
9	BLACK/WHITE	FLEX RELAY OUTPUT
10	WHITE/BLUE	(-) 200mA AUX 1 OUTPUT
11	WHITE	PARKING LIGHT OUTPUT
12	ORANGE	(-) 500mA GROUND WHEN ARMED OUTPUT

Door Lock Harness, 8-pin connector

1	VIOLET	UNLOCK #87 NORMALLY OPEN (INPUT)
2	BLUE/BLACK	UNLOCK #30 COMMON (OUTPUT)
3	BROWN/BLACK	UNLOCK #87a NORMALLY CLOSED
4	VIOLET/BLACK	LOCK #87 NORMALLY OPEN (INPUT)
5	GREEN/BLACK	LOCK #30 COMMON (OUTPUT)
6	WHITE/BLACK	LOCK #87a NORMALLY CLOSED
7	WHITE/VIOLET	FLEX RELAY #87 NORMALLY OPEN (INPUT)
8	WHITE/BROWN	FLEX RELAY #87a NORMALLY CLOSED

Starter Kill Harness, 3-pin connector

1	GREEN/WHITE	STARTER - COMMON (KEY SIDE)
2	GREEN	STARTER - NORMALLY OPEN (MOTOR SIDE)
3	GREEN/BLACK	STARTER - NORMALLY CLOSED (MOTOR SIDE)

Important: NEVER connect 200mA low current outputs directly to a motor or high current device WITHOUT a relay

Guide Translations

For a Spanish or French version of the Installation Guide, please download it from www.directechs.com under "Resources".

Traducción de los manuales:
Para obtener una versión en Español o Francés del Manual de Instalación, descárguela de www.directechs.com bajo el título "Recursos" ("Resources").

Traduction du guide:
Pour une version française ou espagnole du guide d'installation, veuillez le télécharger à www.directechs.com sous «Resources»..

Installation Points

Adjusting the Shock Sensor

Adjusting with the LE (2-way) or companion (1-way) remote control:
1. Make sure the ignition is off, and the system is disarmed with all open zones closed.
2. **Press** and **hold** the **f** button of the remote control for 8 seconds until the transmit LED turns on and then release it (If programmed to operate two systems, ignore the transmit LED flashes at 3 seconds).
3. **Press** and **hold** the 🔒 button until the transmit LED flashes off then on and the siren emits a long chirp. Adjustment mode is ready.
4. Adjust the sensitivity:
   - **Press** and release the 🔒 button to increase the sensitivity. The siren chirps two times.
   - **Press** and release the 🔓 button to decrease the sensitivity. The siren chirps one time.
   - **Press** and release the ⟳ button to reset sensitivity to default setting. The siren chirps three times.

Note: The remote control may or may not emit sounds during this operation.

Adjusting with the LCD remote control:
1. Make sure the ignition is off, and the system is disarmed with all open zones closed.
2. **Press** and **hold** the **f** button of the remote control until a long beep is emitted and Main Menu is displayed. (if programmed to operate two systems, ignore the car 1 or car 2 text and beeps at 3 seconds).
3. **Release** the **f** button to view the main menu. Setup Remote is displayed.
4. **Press** and **release** the ⟳ button. Sensor Adjust is displayed.
5. **Press** and **hold** the **f** button until a long beep is emitted and the siren emits a long chirp. The current sensitivity Sen ## is displayed, adjustment mode is ready.
6. Adjust the sensitivity:
   a. **Press** and release the AUX and ⟳ buttons change the sensitivity.
   b. **Press** and **hold** the **f** button. The adjustment is sent to the system and the remote control emits a long beep as confirmation.
   c. Release the button.

Note: After each adjustment the sensitivity can be tested by cautiously impacting the vehicle with increasing intensity. The siren will chirp to indicate the impact level required to fully trigger the alarm.

Exit adjustment mode:
- **Press** and release the **f** button any time to exit adjustment mode, and then **press** and **hold** to return the remote control to normal operation (transmit LED turns off).
- **Open** the hood or trunk
- **Turn** the ignition on
- **Wait** for 30 seconds between steps
The siren will emit one long chirp when exiting adjustment mode.

Long Term Event History

The system stores the last six full triggers in memory. These are not erasable. To access long term event history:

1. With the ignition off, **press** and **hold** the control center button.
2. **Turn** the ignition on.
3. **Release** the control center button.
4. Within 5 seconds, **press** and **release** the control center button. The control center LED flashes in groups indicating the last six zones that triggered the unit for 1 minute or until the ignition is turned off (indicated in the order of most recent first to oldest last). Refer to *Table of Zones*.

Note: The Warn Away triggers are not stored to memory and is not reported.

Table of Zones

A zone is represented by the number of control center LED flashes used by the system to identify a particular type of input.

Zone	Description	Input Description
1	Trunk Pin	H1/7 Blue wire
2	Instant trigger: a heavier impact detected by the onboard shock sensor	On board shock sensor.
3	Door switch trigger	H1/8 Green or H1/6 Violet wire
4	Instant trigger: For optional sensors	3 pin optional GWA MUX port
5	Ignition trigger	H3/5 Yellow wire
6	Hood Pin	H3/7 Grey wire
7	Instant trigger: For optional sensors	4 pin optional MUX port

Basic Remote Functions

Level / Button	Direct Access	**f** x 1 LEVEL 1	**f** x 2 LEVEL 2	**f** x 3 LEVEL 3	**f** x 4 LEVEL 4
🔒	Arm/Lock (Panic)	Silent Arm	Sensor Bypass	Sensor Silent Arm	Full Silent Arm
🔓	Disarm/Unlock	Silent Disarm	Remote Valet	Car Finder	
⟳	Remote Start*/ Aux 1/4**				
AUX	Aux/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
f	Advance Level Change Car (3s), Enter programming (8s)		Arm Status (2-way only)		

*   Available only with optional Remote Start module installation

** This button can command either Aux 1 or Aux 4 if turned on by an authorized Directed dealer.

Important: If the IVU (control center) has been replaced, all remote controls must be re-paired with the system. See Remote Pairing for details.

Bitwriters with a date code of 6a or older require an IC upgrade (p/n 998M). Some bitwriters with a date code of 6B do not require the IC upgrade, refer to tech tip # 1112 for more information.

D2D DATA TO DATA™

The Bitwriter® (p/n 998U) requires chip version 2.7 or newer to program this unit.

See full Installation Guide for more detailed information. Such information and more can be found online at: **www.directechs.com**

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Programming System Features

The System Features Learn Routine dictates how the unit operates. It is possible to access and change most of the feature settings using the control center button.

1. **Open** a door.
2. **Turn** the ignition on, then off.
3. **Select** a Menu. **Press** and **hold** the control center button. The number of siren chirps indicates the menu number. 1 chirp indicates menu 1, 2 chirps - menu 2.
4. When the desired menu chirps are heard, **release** the control center button.
5. **Select** a Feature. **Press** and **release** the control center button the number of times corresponding to the feature you wish to change. Then **press** and **hold** one more time to select the features.
6. **Program** the Feature. While holding the control center button, you can program the feature using the remote control.

For features with only two options; 🔒 = option 1 while 🔓 = option 2.
For features with more than two options; 🔒 selects the options in ascending order, while 🔓 selects them in descending order.

Note: Pressing ⟲ button resets the feature to the factory default.

Once a feature is programmed:
* Other features can be programmed within the same menu
* Another menu can be selected
* The learn routine can be exited if programming is complete

To access another feature in the same menu:
1. **Press** and **release** the control center button the number of times necessary to advance from the feature you just programmed to the next one you want to program.
2. Then **press** the control center button once more and **hold** it.

To select another menu:
1. **Press** and **hold** the control center button.
2. After 3 seconds, the unit advances to the next menu and the siren chirps, indicating which menu has been accessed.

The learn routine exits if any of the following occurs:
* The open door is closed
* The ignition is turned On
* There is no activity for 30 seconds
* The control center button is pressed too many times

Bitwriter - Only Options

If programming with the Bitwriter®, the learn routine can be locked or unlocked. If the learn routine has previously been locked, it must be unlocked with Bitwriter® - this cannot be done manually with the control center button.

The Bitwriter® gives you access to a wider range of system options. These features and the adjustments that may be programmed are described under the Bitwriter section in the full online guide.

Feature Menus

Default settings are in **bold** type (Opt. 1).

Menu 1

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	System Arming Mode	**Active**	Passive Arm – no lock	Passive Arm & lock	Auto Re-arm - no lock	Auto Re-arm & Lock
2	Panic Mode	**On**	Ignition Off Only	Off		
3	Confirmation Chirps	**On - Warn chirps on**	On - Warn chirps off	Off - Warn chirps on	Off - Warn chirps off	
4	Siren Duration	**30 sec.**	60 sec.			
5	Ign-controlled Locks	**No Ign-locking**	Lock & Unlock	Lock Only	Unlock Only	
6	Door Lock Pulses	**Single**	Double Unlock Only	Double Lock Only	Double Lock & Unlock	
7	Door Lock Output Duration	**0.8 sec.**	3.5 sec.	0.4 sec.		
8	2nd Unlock**	**2nd unlock on Ign-control after first unlock**	2nd unlock on Ign-control with first unlock			
9	Comfort Closure	**No Comfort Closure**	Comfort Closure 1	Comfort Closure 2		
10	Horn Function	**Full Alarm Only**	Siren Function 20 ms	Siren Function 30 ms	Siren Function 40 ms	Siren Function 50 ms
11	Hood Switch type	**Normally Open**	Normally closed			
12	Trunk Switch Type	**Normally open**	Normally closed			
13	Door Switch Type	**Normally open**	Normally closed			
14	Immobilizer Type	**Normally Closed**	Normally Open			
15	Sensor Trigger	**Single sensor**	Double sensor			
16	Nuisance Prevention	**On**	Off			
17	Flex Relay	**Dome**	Horn	Trunk release		
18	VRS	**Off**	On - Disarm chirps off	On - Disarm chirps on		
19	Remote Button unlock (Ign off) *	**On**	Off			

* Not applicable to the 1-way remote control.
** Requires 2nd unlock option to be set for an Aux channel.

Menu 2

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	One-time Bypass	**One time bypass Off**	One time bypass On			
2	Override Pulse count	**1**	2	3	4	5
3	Door Trigger Error Chirp	**On**	Off			
4	Ign-controlled Dome light	**On**	Off			
5	OEM Alarm Disarm w/Aux-Trunk	**On**	Off			
6	OEM Alarm Disarm Output	**With Unlock**	Before Unlock	Remote Start Only		
7	OEM Alarm Disarm Pulses	**1**	2			
8	Aux/Trunk Output type	**Validity**	Off	OEM Alarm Arm	2nd unlock	
9	Aux/Trunk Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
10	Aux 1 Output type	**Validity**	Latch	Latch/ reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), Remote Start Report (8)
11	Aux 1 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ disarm	
12	Aux 2 Output Type	**Validity**	Latch	Latch reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9)
13	Aux 2 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
14	Aux 3 Output Type	**Validity**	Latch	Latch reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9)
15	Aux 3 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
16	Aux 4 Output Type	**Validity**	Latch	Latch reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9) Remote Start Report (10)
17	Aux 4 Linking	**No linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
18	Remote Start Button Control	**None**	Aux 1	Aux 4		

Reset and Delete

To reset the features/virtual tach or delete remote controls follow this procedure:
1. Open at least one vehicle door.
2. Turn the key to the ON position
3. Within 5 seconds press and release the control button: 2 times to delete remotes, 3 times to reset the features to default.
4. Once you have selected the function step, press the control button once more and hold it. The LED will flash and the siren will chirp to confirm the functional step chosen. Release the control button.
5. Press the 🔒 button of a programmed remote control. The siren will chirp confirming the feature has been reset/deleted.

Note: Deleting a remote control does not reset the features, resetting the features does not delete remote controls.

Reset/delete will exit if:
* The ignition is turned off
* The open door is closed
* 60 seconds lapses with no actions.

Remote Pairing

Prepare the vehicle system to be Paired with a new remote
1. **Open** at least one vehicle door.
2. **Turn** the key to the ON position.
3. Within 5 seconds **press** and **release** the Control button on the Control Center one time.
4. Within 5 seconds, **press** and **hold** the Control button on the Control Center. The status LED begins flashing in single flash sequence and the siren chirps once to confirm the system is ready for remote pairing. **Release** the button.
5. Locate your remote control model below and follow the instructions.

System Pairing will exit if:
* The ignition is turned off
* The open door is closed
* 60 seconds lapses with no actions

Note: Make sure the remote to be paired with the system is set for the desired Car 1 or Car 2 operation.

LCD Remote Control:
1. Press and hold the *f* button for 8 seconds, the remote beeps once, Main Menu is displayed. Release the *f* button.
2. Press the **AUX** or ⟲ buttons until Pair is displayed.
3. Press and hold the *f* button until the remote beeps 3 times then release the *f* button. The remote is now ready to pair with the system.
4. Press the 🔒 button.
5. Wait several seconds for feedback as the remote generates a security encryption and sends it to the Control Center. If pairing is successful the siren chirps and the remote emits several tones. The screen displays if the Pairing is successful or failed with corresponding text. If pairing fails repeat step 4.

To exit pairing mode on the remote:
* Press and release the 🔓 button.
* Wait 30 seconds without pressing a command button on the remote.

Responder LED or Companion Remote Control:
1. Press and hold the *f* button for 8 seconds. The transmit LED will come on solid. Release the *f* button.
2. Press and hold the ⟲ until the transmit LED flashes 3 times then comes on solid.
3. Press the 🔒 button.
4. Wait several seconds for feedback as the remote generates a security encryption and sends it to the Control Center. If pairing is successful the siren will chirp and the 2-way remote will emit several tones (the companion remote does not generate tones). If pairing is not successful press and release the *f* button once and then repeat steps 2 and 3.

To exit pairing mode on the remote:
* Press and release the *f* button once, then press and hold until the transmit LED shuts off.
* Wait 30 seconds without pressing a command button on the remote control.

Note: See Owner's guide for more details.