# **Directed Digital System**

# **AUKI** Firmware Specific Guide

This product is intended for installation by a professional installer only! Attempts to install this product by a person other than a trained professional may result in severe damage to a vehicle's electrical system and components.

# **DIRECTED**<sub>®</sub>

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# Warning! Safety first

1 The following safety warnings must be observed at all times:

- Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer.
- When properly installed, this system can start the vehicle via a command signal from the remote control. Therefore, never operate the system in an area that does not have adequate ventilation.

The following precautions are the sole responsibility of the user; however, authorized Directed dealers should:

- Never use a test light or logic probe when installing this unit. Always use a multimeter.
- Never operate the system in an enclosed or partially enclosed area without ventilation (such as a garage).
- When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the installed toggle switch. It is the user's sole responsibility to properly handle and keep out of reach from children all remote controls to assure that the system does not unintentionally remote start the vehicle.
- USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST REMAIN CLOSED AT ALL TIMES.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. Except when performing the Safety Check outlined in this installation guide, (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user is responsible for having the neutral safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in this product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the user to fix the problem immediately.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. IMMEDIATELY CEASE THE USE OF THE UNIT AND REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

Remote starters for manual transmission pose significant risks if not properly installed and operated. When testing to ensure the installation is working properly, only remote start the vehicle in neutral gear, on a flat surface and with a functional, fully engaged parking brake. Do not allow anyone to stand in front of or behind the vehicle.

This product should not be installed in any convertible vehicles, soft or hard top with a manual transmission. Installation in such vehicles may pose certain risk.

## Introduction

The AUKI firmware for Directed Digital Systems is a complete solution for remote start, security (if applicable), bypass interface, and convenience needs compatible with specific Audi vehicles.



**Warning!** This module can only be programmed via the web tool, which can be found on www.directechs.com or using the Directechs Mobile application for smartphones. Features and functions will become accessible when you connect the module using the XKLoader.

#### Vehicle application guide

The table below lists the vehicles and features which are compatible with this product. Refer to the following pages for more information on installation wiring, programming and troubleshooting for these vehicles.

Vehicles	2015	2013	2012	2011	2010	2009	2008	2007	2006	2005	DL-Arm Factory Security	DL-Disarm Factory Security	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	DL-Hatch Glass Release	DL-Trunk / Hatch Release	ontrol of aftermarket alarm with	RS-3x LOCK START (Start control using OEM Remote)	RS-RAP Shut Down (Retained ACC Power)	RS-SmartStart 3.0 Compatible	RS-Tach / RPM Output	SS-Entry Monitoring ALL Door Pins	SS-Entry Monitoring Driver Door Pin	SS-Entry Monitoring Hood Pin	SS-Factory Alarm Trigger Monitoring	SS-Remote Alarm Ready-RFTD	ST-Brake Status (foot brake)	ST-Door Locks Status	ST-E-Brake Status
Audi																								0,	0,	0,		0,	0,	07
A6				•	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•	•	•	•			•	•	
Q7	•										•	٠	•	٠	٠	•	٠	•	٠	•	•	•	•	•	•	•	•	•	•	•
Q7		٠	٠	٠	•	٠	٠	٠	•		•	٠				•	٠	•	٠	•	•	•	•	•	•			•	•	
RS6				٠	•	•	٠				•	•				•	٠	•	٠	•	•	٠	•	•	٠			•	•	
S6				•	•	•	•	•	•		•	•				•	•	•	•	•	•	•	•	•	•			•	•	

#### Legend:

CC: Comfort Closure DL: OE Door Lock & Alarm Controls FOB: Sync CAN Interface w/ FOB Remote RS: Engine Start & Status SS: Entry Point Status-Security ST: Function/Feature Status

## Wiring connections

Your module may come with one of two versions of wiring harnesses. It is clearly indicated in the following tables which harnesses and wire colors can be different in your installation.

The wiring connections listed below are generic to this firwmare.

Conn./Pin	Color	Description			
H1/1	White	Relay 3 COM – No Connection <sup>1</sup>			
H1/2	White/Brown	Relay 3 N.O No Connection 1			
H1/3	Brown/Red	Relay 2 N.O. – No Connection <sup>1</sup>			
H1/4	Yellow/Red	Relay 2 COM – COM Data			
H1/5	Orange/Red	Relay 2 N.C. – COM Data			
H1/6	Yellow	Relay 1 COM – Clutch First Sensor (Manual Transmission) 1			
H1/7	White	Relay 3 COM – No Connection 1			
H1/8	White/Brown	Relay 3 N.O No Connection 1			
H1/9	Black	(-) Ground			
H1/10	Red	(+) 12 Volt (Battery)			
H1/11	Orange/Yellow	Relay 1 N.C. – Clutch First Sensor (Manual Transmission) 1			
H1/12	Brown	Relay 1 N.O.– (+) No Connectionr <sup>1</sup>			

#### Main power harness (H1), 12-pin thick gauge connector

#### Auxiliary output harness (H2), 16-pin black connector

Your module may come with one of two versions of wiring harnesses. The column in red is for old wire colors, and the rows with *italicized* text indicate where differences may occur.

Conn./Pin	Color (CURRENT Harness)	Color (OLD Harness)	Description
H2/1	Violet/Brown	Violet/Brown	No Connection
H2/2	Yellow/Black	Yellow/Black	COM Data
H2/3	Orange/Black	Orange/Black	COM Data
H2/4	Tan	Tan	No Connection
H2/5	Tan/Black	Tan/Black	No Connection
H2/6	Light Green	Light Green	No Connection
H2/7	Orange/Green	Orange/Green	FT CAN High
H2/8	Orange/Brown	Orange/Brown	FT CAN Low
H2/9	Violet/Green	Violet/Green	No Connection
H2/10	Green/Black	Lt. Green/White	(-) Start
H2/11	White/Violet	White/Violet	(-) AUX 1 Output <sup>2</sup>
H2/12	White/Red	White/Red	(+) AUX 1 Output <sup>2</sup>
H2/13	Lt. Blue/Black	Lt. Green/Black	(-) Ignition
H2/14	Green/Red	Green/Red	(+) AUX 4 Output <sup>2</sup>
H2/15	N/A	Violet/Red	No Connection
H2/16	Violet/Yellow	Violet/Yellow	No Connection

1. If these outputs are not used by the firmware, they can be configured by the installer when the module is flashed.

2. If these outputs are not used by the firmware, they can be configured by the installer when the module is flashed. Note that they are low current and a relay may be necessary.

## Analog harness (H3), 18-pin white connector

Your module may come with one of two versions of wiring harnesses. The column in red is for old wire colors, and the rows with *italicized* text indicate where differences may occur.

Conn./Pin	Color (CURRENT Harness)	Color (OLD Harness)	Description
H3/1	Lt. Blue/Red	Lt. Blue/Red	No Connection
H3/2	Black/White	White/Black	(-) Parking Brake Input (Manual Transmission) <sup>2</sup>
H3/3	Gray	Gray	(-) Hood Input <sup>2</sup>
H3/4	N/A	Black/White	No Connection
H3/5	Gray/Black	Gray/Black	(+) Glow Plug Input <sup>2</sup>
H3/6	Violet/White	Violet/White	(AC) Tach Input <sup>2</sup>
H3/7	Dark Blue	Dark Blue	No Connection <sup>1</sup>
H3/8	Brown/Black	Brown/Black	No Connection <sup>1</sup>
H3/9	Red/White	Red/White	(-) Trunk Release Output 1
H3/10	White/Green	Green/Gray	(-) Door Input <sup>2</sup>
H3/11	Yellow/Green	Violet/Gray	(+) Door Input <sup>2</sup>
H3/12	Blue/Red	Blue/Red	No Connection
H3/13	Light Blue	Light Blue	(-) Trunk Trigger Input <sup>2</sup>
H3/14	Pink/Yellow	Blue/Black	No Connection
H3/15	Dark Green	Dark Green	(-) Clutch Second Sensor (Manual Transmission)
H3/16	Brown/White	Light Brown	(+) Brake Input <sup>2</sup>
H3/17	Brown	Brown	(+) Siren Output <sup>1</sup>
H3/18	Blue/White	Blue/White	(-) Ground When Running (Status) Output 1

#### MC501 harness (H4), 8 thick-gauge wires (optional)

Conn./Pin	Color	Description
H4/1	Pink/White	No Connection
H4/2	Red/White	No Connection
H4/3	Pink	No Connection
H4/4	Red	No Connection
H4/5	Orange	No Connection
H4/6	Red	No Connection
H4/7	Green	No Connection
H4/8	Violet	No Connection

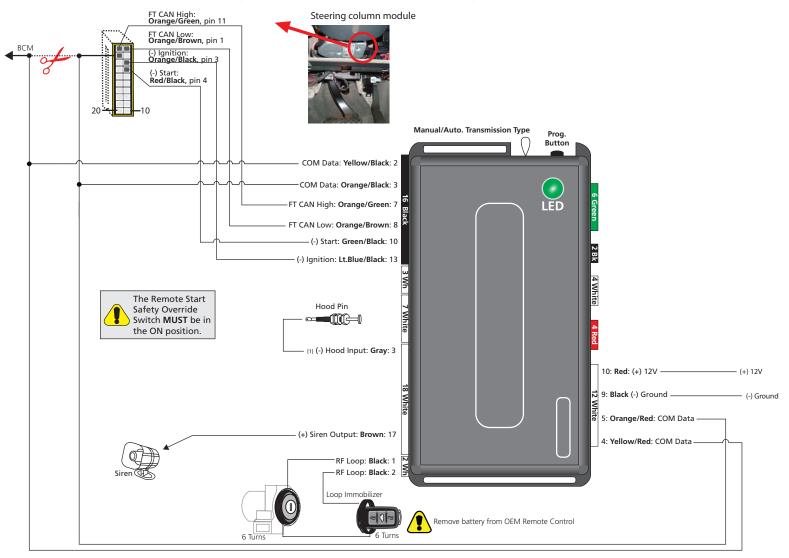
1. If these outputs are not used by the firmware, they can be configured by the installer when the module is flashed. Note that they are low current and a relay may be necessary.

2. These connections are only required if the corresponding statuses are not supported by the firmware. See "Vehicle application guide" on page 4 for a list of compatible features.

## Installation

#### Wiring Diagram - Automatic Transmission

Refer to "Vehicle wiring reference charts" on page 11 for more information on vehicle-specific connections.



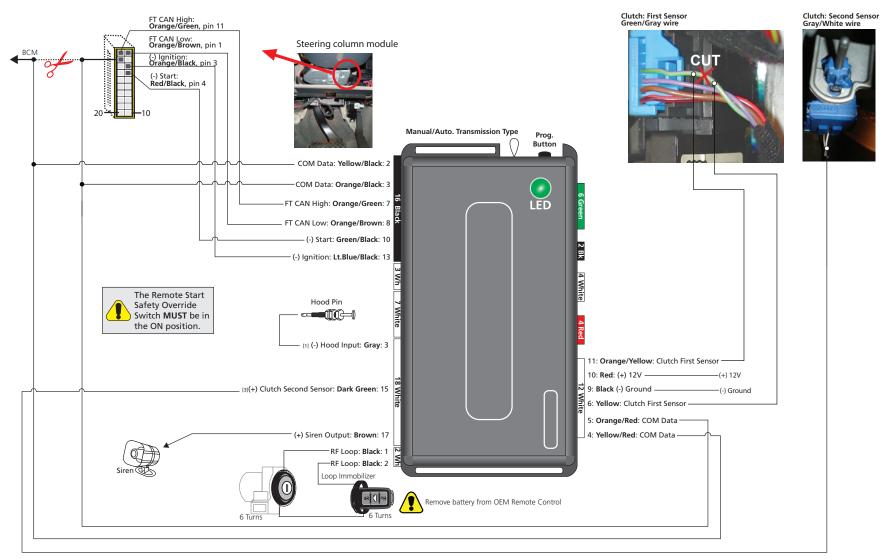
🗛 While there are 2 possible versions of wiring harnesses, this diagram uses the CURRENT harness. Refer to the Wiring connections section for more information.

[1] This wire must be connected and the switch must be in the ON position to ensure the remote start system is operational. [2] The installation of an aftermarket hood pin is **only** required on vehicles that are **not** equipped with a factory hood pin.

With the exception of the OBDII diagnostic connector, all adapters are displayed from the wire side (unless specified otherwise).

#### Wiring Diagram - Manual Transmission

Refer to "Vehicle wiring reference charts" on page 11 for more information on vehicle-specific connections.



A While there are 2 possible versions of wiring harnesses, this diagram uses the CURRENT harness. Refer to the Wiring connections section for more information.

[1] This wire must be connected and the switch must be in the ON position to ensure the remote start system is operational.

[2] The installation of an aftermarket hood pin is **only** required on vehicles that are **not** equipped with a factory hood pin.

[3] Manual transmission only.

(I) With the exception of the OBDII diagnostic connector, all adapters are displayed from the wire side (unless specified otherwise).



## Connecting the module

#### Important!

Before connecting the Directed Digital System, it is important to ensure that the proper feature and function programming is selected using the configuration wizard. Visit www.directechs.com to use the latest version of the online tool.

To make this selection:

- 1. Disconnect the main module from any (+)12V power source, then connect it to your computer using the **XKLoader**.
- 2. Open the Internet Explorer browser (version 6.0 and later) and go to **www.directechs.com**; the programming window will be displayed automatically.
- Follow the instructions in the pop up window that will be displayed when the module is detected.
  Note: If the latest firmware is already loaded, only the feature options will be flashed. Check the Yes box if you wish to flash the firmware as well.

Once the module is programmed, you can proceed with the instructions below.

#### Manual or automatic transmission selection

The yellow loop on the Directed Digital System controls which transmission type the unit is configured for. The state of the loop (uncut or cut) when the main module is powered up will determine which type is selected.

- Uncut (default): Manual transmission.
- Cut: Automatic transmission.

For safety reasons, all Directed Digital Systems are shipped ready to use with a manual transmission (the yellow loop is untouched). If the loop is cut after power has been applied, it is necessary to cycle power to the main module (via the white 12-pin main power harness) so the unit will see the state change on the loop and appropriately configure the transmission type.

#### Ready mode

To successfully remote start a vehicle equipped with a manual transmission, the Ready Mode feature must be enabled before exiting the vehicle. Please refer to the Owner's Guide for more details on this required process.

Connection	Description
(-) Emergency Brake Input (black/white, pin 2)	Must be connected to a working emergency brake in the vehicle. Although most vehicles have simple (-) trigger emergency brake circuits note some vehicles do not and may require unique integration methodologies.
(-) Door Input (white/green, pin 10) OR (+) Door Input (yellow/green, pin 11)	Must be connected to a working door trigger in the vehicle, which monitors all doors. The unit must monitor the door pins to allow the Ready Mode process to be enabled. <b>Note</b> : Some vehicles may require unique integration methodologies for this circuit.
(AC) Tachometer Input (violet/white, pin 6)	Must be connected to a working tachometer signal in the vehicle (fuel injector, ignition coil, true tach, etc.) and learned successfully to the Directed Digital System.

Additional connections required for vehicles equipped with a manual transmission (if not supported by firmware)

Note: Refer to www.directechs.com for more information.

#### **Optional sensors**

Note: The sensor port is only active on hybrid systems.

The 4-pin sensor port is compatible with a number of different Directed sensors including, but not limited to:

- Shock Sensor 504D
- Field Disturbance Sensor 508D
- Ultrasonic Sensor 509U

**Note**: In the case of 508D, power and ground must be hardwired to the vehicle – power and ground should **NOT** be obtained from the 4-pin sensor port.

Each sensor will have its own instructions, which must be followed for installation and adjustment.

#### **RF** kits

An RF kit consists of one or multiple remotes, a Control Center (antenna), and an antenna cable – various combinations exist. An RF kit allows the vehicle owner to control the system with enhanced range. Two-way models are available. Please follow the instructions included with the kit for appropriate installation and programming information.

When flashing the Directed Digital System, make sure to pick the remote you will be using. This way the main module will have the necessary firmware to interact with the remote and Control Center (antenna) combination.

#### When used in conjunction with SmartStart

The Directed Digital System main module must be disconnected from any power source before SmartStart can be connected to it. Failing to do so could damage main module.

To ensure that the D2D communication between the Directed Digital System and SmartStart works properly, one of the following actions must be executed, depending on the hardware you are using:

- Rev A SmartStart The brown or blue loop must be cut.
- Rev **B** SmartStart The gray wire must be connected to a ground source.

Do **NOT** connect the SmartStart 2-pin power harness. Power and ground will be provided by the D2D connector on main module.

#### Module programming

Refer to "LED diagnostics and troubleshooting" on page 13 for more information and for troubleshooting purposes.

To connect the module:

10 0		
1	Please ensure that the vehicle is in a safe location an cannot move forward during programming. For vehicles equipped with a manual transmission, make sure the gearshift lever is in the neutral position.	
2	Connect all the harnesses to the Directed Digital System, <b>EXCEPT</b> the white12-pin main power harness.	Connect all but the white 12-pin harness
3	Connect the white12-pin main power harness, and wait until the LED turns ON solid red.	Must be connected LAST
4	Turn the key to the ON position. The LED flashes green once.	Key IN Flashes Green x1
5	Turn vehicle ignition OFF once the module is successfully programmed.	
6	Pair remotes (if applicable). For information on how to pair a specific remote, please refer to its corresponding owner documentation, which can be found inside the product packaging of the complete system or on www.directechs.com.*	Pair remotes*
7	By default, the tachometer is preprogrammed for the vehicle. For instructions on how to program tach, refer to the Analog Installation Guide, which can be found on www.directechs.com.	Initialize tachometer

\* Your aftermarket remote may differ from the model shown in the illustrations.

#### LED diagnostics and troubleshooting

This section provides LED diagnostics and troubleshooting information to guide you through the various stages of your installation.

#### Module programming

LED	Description	Troubleshooting	Comment
Off	Successful CAN programming sequence.	Turning the key to ON during the programming sequence determines when CAN is successfully detected.	Normal operation.
Solid red	Successful bypass programming sequence.	Turning the key to ON during the programming sequence determines when the module bypass is successfully programmed.	Normal operation.
Solid orange x 2 secs	Successful programming	Module programmed successfullly, but 1 or more steps was skipped.	Used for diagnostic purposes only. By pressing the programming button 5 times, some programming detection sequence will be skipped and some functionality may not work.
Solid green x3 seconds	sequence.	Module programmed successfullly.	Normal operation.

#### *Module programming – Error codes*

LED	Description	Troubleshooting	Comment
Flashes red x 1	CAN/J1850 not detected.	Check the Orange/Green - Orange/Brown wire connections. Wake up the data bus by turning the ignition on and try again.	Some installation types do not need this connection. Skip by pressing the programming button 5 times.
Flashes red x 2	CAN2 not detected.	Check the Tan - Tan/Black wire connections. Wake up the data bus by turning the ignition on and try again.	Some installation types do not need this connection. Skip by pressing the programming button 5 times.
Flashes red x 3	Bypass data not detected.	Check the bypass line connection. If more than one wire is used, make sure they are not inverted.	Start vehicle using the key to confirm the OEM equipment is still operational.
Flashes red x 4	Bypass processing error.	Bypass calculation failed. Reset the module and try again.	Might be caused by a bad reading in the first programming attempt or by an unknown bypass value. If a second attempt fails, connect the module to XpressKit and call Tech Support with the module ID in hand.
Flashes red x 5	ISO 1 not detected.	Yellow/Black wire did not detect the expected signal.	Refer to the wiring installation section to check the connections.
Flashes red x 6	ISO 2 not detected.	Orange/Black wire did not detect the expected signal.	Refer to the wiring installation section to check the connections.
Flashes red x 7	MUX not detected.	Violet/Green - Violet/Brown did not detect expected voltage value.	Refer to the wiring installation section to check the connections. Use a Multimeter to check the voltage value on the wire.
Flashes red x 8	Incorrect programming sequence.	All functions and features have been skipped. Module will not perform any operation.	Too many programming sequences have been skipped by pressing the programming button 5 times. Reset module and reprogram.
Flashes red x 9	Ignition not detected.	Check the ignition input connection.	Ignition can be detected from CAN or wire input.

LED	Description	Troubleshooting	Comment		
Flashes red x 10	VIN not supported.	Check the firmware against vehicle year and model coverage. Possible causes are that a vehicle build date or a country code has yet to be supported.	Connect module to XpressKit and call Tech Support with the module ID in hand. If applicable, the new VIN will be added to the solution.		
Flashes red x 11	BCM not supported.	Vehicle platform is not supported by the firmware.	Connect module to XpressKit and call Tech Support with the module ID in hand. If applicable, the new VIN will be added to the solution.		

#### External module synchronization

LED	Description	Troubleshooting	Comment
(Flashes red, red, then orange) x 10	OBDII feature not supported.	Diagnostic data bus not detected.	Some features are not supported by SmartStart. Check the Tan - Tan/Black and/or Orange/Green - Orange/Brown wire for proper connections. Refer to the wiring installation section to check the connections.

#### Shutdown codes

LED	Description	Troubleshooting	Comment
Flashes red x 1	Run safe shutdown.		
Flashes red x 2	Brake shutdown.	Used to check the installation and for	Used to check for internal safety operation. Does
Flashes red x 3	No key detected shutdown.	troubleshooting purposes.	not represent an error.
Flashes red x 4	Speed detected.		

#### Active ground when running (status)

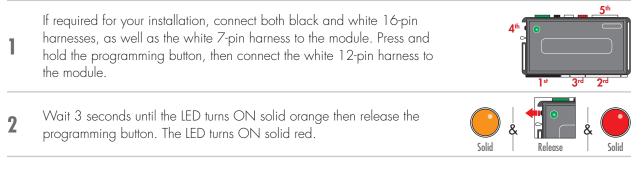
LED	Description	Troubleshooting	Comment
Flashes green	GWR (Status) command received.	Used to ensure the module has received the remote start message and has enabled the remote start runtime.	Commands can come from RF, D2D or W2W.
Flashes red & orange	IGNITION ON command received.	Used to ensure the module received the ignition command.	In a W2W install, it will show only if the ignition
Flashes green quickly	START ON command received.	Used to ensure the module received the start command.	input wire is used.

#### External commands

LED	Description	Troubleshooting	Comment
Flashes orange x 1	LOCK command received.	If the bypass module fails to flash, it means the module did not receive the signal.	Commands can come from RF, D2D or W2W.
Flashes orange x 2	UNLOCK command received.		
Flashes orange x 3	TRUNK command received.		
Flashes orange x 4	AUX1 command received.	If the bypass module fails to flash, it means the module did not receive the signal.	Commands can come from RF, D2D or W2W.
Flashes orange x 5	AUX2 command received.		

#### Module reset

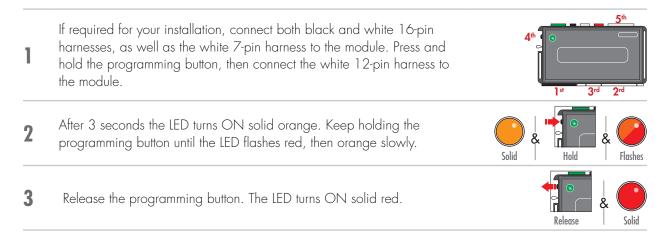
A module reset will only erase the steps performed in "Module programming" on page 12. All settings (firmware) and settings flashed to the module using the web configuration tool will not be affected.



#### Hard reset

#### Warning Against Executing a Hard Reset!

A hard reset will revert the flashed firmware back to its default settings. Depending on the installation, some settings may need to be reconfigured. Connect your module to a computer and use the web configuration tool to edit its programmable features.



## Learning the Tach (not needed with Virtual Tach)

Tach comes preprogrammed, therefore learning is not required; however, it can be readjusted with the following operations:

- 1. Start the vehicle using the key.
- 2. Within 5 seconds, press and hold the Control Center\* (antenna) or the main module programming button, until the LED on the Control Center (antenna) or the main module turns ON soild.
- 3. Release the button. Tachometer value is now stored in memory. If the LED does not turn ON solid, find an alternate tach source.

\* If the Control Center (antenna) was not included in your kit, the tach can be programmed using the programming button directly on the main module.

**Note**: When the tachometer is programmed, the main module automatically enters the Tachometer engine checking mode.

# Initializing Virtual Tach (not needed with hardwired or data tach applications)

To program Virtual Tach:

- 1. After the install is complete, remote start the engine. The programming operation may require 3 cranks of the starter before the engine starts and runs. Do not turn off the remote start if this happens, it is a normal programming operation.
- 2. Once the engine begins running, let it run for at least 30 seconds.
- 3. Using the Remote, send the Remote start command to turn remote start off. Virtual Tach is programmed. To reset Virtual Tach, a module reset must be done.

Note: Virtual Tach cannot be used in Manual Transmission Mode. It is also not recommended for diesel trucks.

Virtual Tach handles disengaging the starter motor during remote starting – it does not address over-rev. If the customer wants to have the over-rev protection capability, the tach wire or data tach must be used.

**Important!** After successfully learning Virtual Tach, a small minority of vehicle starters may over crank or under crank during remote start. Use the VirtualTach Fine tune feature in the configuration wizard to adjust the starter output time in 50mS increments to compensate for such an occurrence.

## Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLECT, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

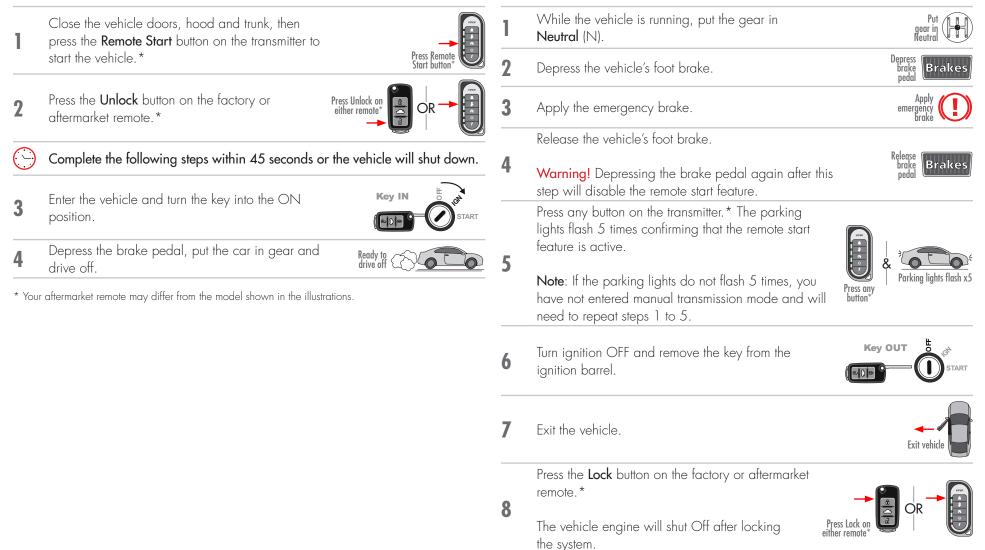
For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: www. directed.com.

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.

(920-10011-01 2011-06)

## Quick Reference Guide – Viper, Clifford, Python, Avital & Automate (Regular Key)

#### Vehicle takeover with Regular key



Manual transmission ready mode

\* Your aftermarket remote may differ from the model shown in the illustrations.

#### Pit stop mode

4

Stop the vehicle in a safe parking spot and put the gear in **Park** (P).

Press the **Remote Start** button on the transmitter.\*

2 The parking lights will flash once to indicate the vehicle is now in **Pit Stop Mode**.



**3** Turn ignition OFF and remove the key from the ignition barrel.



Put gear in Park

It is safe to leave the engine running and exit the vehicle with the factory remote in hand.



**Note**: We recommend that you always lock the doors of your vehicle when leaving it unattended.

 $^{\ast}$  Your aftermarket remote may differ from the model shown in the illustrations.

### List of available commands

Note that the information below is for Viper, Clifford and Python models. Icons and commands may differ depending on the remote brand and model purchased. Refer to your authorized installation center for more information.

Button(s)	Actions
	Press & hold for 1 second to lock.
2	Press & hold for 1 second to unlock.
$(\mathbf{i})$	Press & hold for 1 second to remote start.
(AUX)	Press & hold for 5 seconds to activate the trunk release (optional).

#### SmartStart compatible



This system is compatible with Directed SmartStart 3.0. For a complete list of supported features, please visit www.mysmartstart.com.

#### What is SmartStart?

Now you can remote start, lock and unlock your car just by pushing a button on your smartphone; using the SmartStart App from Directed, the leader in vehicle security and remote start. The simple graphical interface gives you control over the following features of your installed remote start or security with remote start system:

- Lock/Árm
- Unlock/Disarm
- Remote Car Starter
- Trunk Release
- Panic
- Aux Channels

You can also control multiple vehicles – great for families – and assign more than one user to control a vehicle. It's easy with SmartStart! But, this is only the beginning! SmartStart is loaded with additional features including GPS tracking, SmartSchedule, vehicle status, roadside assistance, home control, parked car finder and more.

3.0 enables a "Cloud-Connected Car" like never before, providing an entirely new level of 2-way interaction with your vehicle. Connectivity is managed through the Directed Cloud Services (DCS) network linking car, app, end user, and the Internet.

For more information, visit www.mysmartstart.com.

# Quick Reference Guide – Autostart (Regular Key)

#### Vehicle takeover with Regular key

Close the vehicle doors, hood and trunk, then press the Remote Start button on the transmitter to start the vehicle.\*

Press Remote

Press the **Unlock** button on the factory or 2 aftermarket remote.\*



Complete the following steps within 45 seconds or the vehicle will shut down.

Enter the vehicle, while making sure the factory 3 remote is inside with you.



Depress the brake pedal, put the car in gear and Δ drive off

\* Your aftermarket remote may differ from the model shown in the illustrations.

## Get In and Go

Get In and Go is designed to provide users with easy takeover when entering their Push-to-Start (PTS) equipped vehicle, once it has been remote started.

Typically, users would have to remote start their vehicle, then get inside and press the vehicle start button to perform a takeover. There is therefore a physical action required to drive away. With Get In and Go technology, you simply remote start the vehicle, unlock the doors, get in and go... All that's left to do is put the gear in drive and enjoy your vehicle.

This unique feature monitors a variety of parameters such as the key fob, vehicle speed sensor and door sensor, in order to perform takeover securely.

#### Manual transmission ready/idle mode sequence

While the vehicle is running, put the gear in Neutral (N).



Depress the vehicle's foot brake.

Apply the emergency brake twice (2), then release the vehicle's foot brake and skip to step 5.

### OR

2

5

7

8

Apply the emergency brake, then release the vehicle's foot brake



Warning! Depressing the brake pedal again after this step will disable the remote start feature.

Within 10 seconds, press any button on the transmitter \*

The parking lights flash 5 times confirming that the remote start feature is active.

Note: If the parking lights do not flash 5 times, you have not entered manual transmission sequence and will need to repeat steps 1 to 5.



Press any

Turn ignition OFF and remove the key from the 6 ianition barrel.



Exit the vehicle.

Press the:

- Lock button on the factory or aftermarket remote\* to shut the vehicle Off and lock the doors.
- Trunk button on the aftermarket remote only to • lock the doors and enter idle mode.

Press Lock to shut vehicle Off or Trunk (aftermarket remote

only) to enter idle mode \* Your aftermarket remote may differ from the model shown in the illustrations.

#### Idle mode (automatic transmission only)

Stop the vehicle in a safe parking spot and put the gear in **Park** (P).

Press the **Remote Start** button on the transmitter.\*

2 The parking lights will flash once to indicate the vehicle is now in Idle Mode.



Put gear in Park

**3** Turn ignition OFF and remove the key from the ignition barrel.



It is safe to leave the engine running and exit the vehicle with the factory remote in hand.



**Note**: We recommend that you always lock the doors of your vehicle when leaving it unattended.

 $^{\ast}$  Your aftermarket remote may differ from the model shown in the illustrations.

### List of available commands

4

Note that the information below is for Viper, Clifford and Python models. Icons and commands may differ depending on the remote brand and model purchased. Refer to your authorized installation center for more information.

Button(s)	Actions
	Press & hold for 1 second to lock.
2	Press & hold for 1 second to unlock.
G	Press & hold for 1 second to remote start.
(AUX)	Press & hold for 5 seconds to activate the trunk release (optional).

#### SmartStart compatible



This system is compatible with Directed SmartStart 3.0. For a complete list of supported features, please visit www.mysmartstart.com.

#### What is SmartStart?

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## Quick Reference Guide – Viper, Clifford, Python, Avital & Automate (Smart Key)

#### Vehicle takeover with Get In and Go



**2** Press the **Unlock** button on the factory or aftermarket remote.\*



Press Remot

- Complete the following steps within 45 seconds or the vehicle will shut down.
- 3 Enter the vehicle, while making sure the factory remote is inside with you.



Ready to drive off

4 Depress the brake pedal, put the car in gear and drive off.

\* Your aftermarket remote may differ from the model shown in the illustrations.

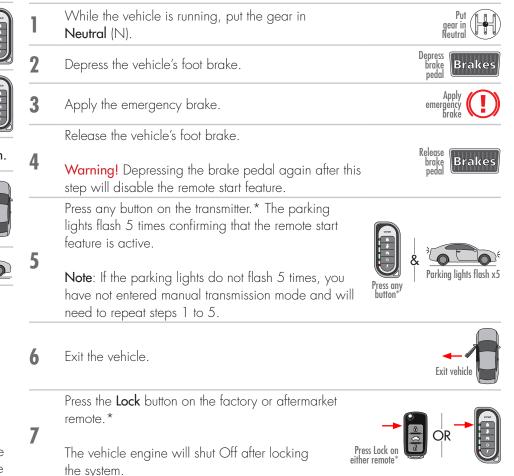
### Get In and Go

Get In and Go is designed to provide users with easy takeover when entering their Push-to-Start (PTS) equipped vehicle, once it has been remote started.

Typically, users would have to remote start their vehicle, then get inside and press the vehicle start button to perform a takeover. There is therefore a physical action required to drive away. With Get In and Go technology, you simply remote start the vehicle, unlock the doors, get in and go... All that's left to do is put the gear in drive and enjoy your vehicle.

This unique feature monitors a variety of parameters such as the key fob, vehicle speed sensor and door sensor, in order to perform takeover securely.

#### Manual transmission ready mode



 $^{\ast}$  Your aftermarket remote may differ from the model shown in the illustrations.

#### Pit stop mode

3

Stop the vehicle in a safe parking spot and put the gear in **Park** (P).

Press the **Remote Start** button on the transmitter.\*

2 The parking lights will flash once to indicate the vehicle is now in **Pit Stop Mode**.



Put gear in Park

It is safe to leave the engine running and exit the vehicle with the factory remote in hand.



**Note**: We recommend that you always lock the doors of your vehicle when leaving it unattended.

 $^{\ast}$  Your aftermarket remote may differ from the model shown in the illustrations.

### List of available commands

Note that the information below is for Viper, Clifford and Python models. Icons and commands may differ depending on the remote brand and model purchased. Refer to your authorized installation center for more information.

Button(s)	Actions
	Press & hold for 1 second to lock.
2	Press & hold for 1 second to unlock.
$\odot$	Press & hold for 1 second to remote start.
(XUX)	Press & hold for 5 seconds to activate the trunk release (optional).

#### SmartStart compatible



This system is compatible with Directed SmartStart 3.0. For a complete list of supported features, please visit www.mysmartstart.com.

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## Quick Reference Guide – Autostart (Smart Key)

## Vehicle takeover with Get In and Go

Close the vehicle doors, hood and trunk, then press the **Remote Start** button on the transmitter to start the vehicle.\*



ÓR

- 2 Press the Unlock button on the factory or aftermarket remote.\*
- Complete the following steps within 45 seconds or the vehicle will shut down.
- 3 Enter the vehicle, while making sure the factory remote is inside with you.



Ready to drive off

4 Depress the brake pedal, put the car in gear and drive off.

\* Your aftermarket remote may differ from the model shown in the illustrations.

### Get In and Go

Get In and Go is designed to provide users with easy takeover when entering their Push-to-Start (PTS) equipped vehicle, once it has been remote started.

Typically, users would have to remote start their vehicle, then get inside and press the vehicle start button to perform a takeover. There is therefore a physical action required to drive away. With Get In and Go technology, you simply remote start the vehicle, unlock the doors, get in and go... All that's left to do is put the gear in drive and enjoy your vehicle.

This unique feature monitors a variety of parameters such as the key fob, vehicle speed sensor and door sensor, in order to perform takeover securely.

#### Manual transmission ready/idle mode sequence

While the vehicle is running, put the gear in **Neutral** (N).



Depress brake pedal

Depress the vehicle's foot brake.

Apply the emergency brake twice (2), then release the vehicle's foot brake and skip to step 5.

#### OR

3

5

7

Apply the emergency brake, then release the vehicle's foot brake.



Warning! Depressing the brake pedal again after this step will disable the remote start feature.

Within 10 seconds, press any button on the transmitter.\*

The parking lights flash 5 times confirming that the remote start feature is active.



Press any

- **Note**: If the parking lights do not flash 5 times, you have not entered manual transmission sequence and will need to repeat steps 1 to 5.
- Exit the vehicle.



#### Press the:

- Lock button on the factory or aftermarket remote\* to shut the vehicle Off and lock the doors.

ress Lock to shut vehicle Of

or Trunk (aftermarket remote

only) to enter idle mode

• **Trunk** button on the aftermarket remote only to lock the doors and enter idle mode.

 $^{\star}$  Your aftermarket remote may differ from the model shown in the illustrations.

#### Idle mode (automatic transmission only)

Stop the vehicle in a safe parking spot and put the gear in **Park** (P).

Press the **Remote Start** button on the transmitter.\*

2 The parking lights will flash once to indicate the vehicle is now in **Idle Mode**.

Press Remote Start button\*

It is safe to leave the engine running and exit the vehicle with the factory remote in hand.



gear in Park

**Note**: We recommend that you always lock the doors of your vehicle when leaving it unattended.

 $^{\ast}$  Your aftermarket remote may differ from the model shown in the illustrations.

### List of available commands

3

Note that the information below is for Viper, Clifford and Python models. Icons and commands may differ depending on the remote brand and model purchased. Refer to your authorized installation center for more information.

Button(s)	Actions
	Press & hold for 1 second to lock.
2	Press & hold for 1 second to unlock.
G	Press & hold for 1 second to remote start.
(AUX)	Press & hold for 5 seconds to activate the trunk release (optional).

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