INSTALLATION GUIDE

DIRECTED®



933.HONDA9
v2.26.200.12

2016 Acura MDX (Smart Key)

Tools & accessories (sold separately):

THHON1(discontinued), THHON11, THHON9(discontinued) Compatible (optional)

Functions compatible with the 2016 Acura MDX (Smart Key)

- 3x LOCK START (Start control using OEM Remote)
- 3x LOCK STOP (Stop control using OEM Remote)
- Arm Factory Security
- Brake Status (foot brake)
- Control of aftermarket alarm with OEM remote
- Disarm Factory Security
- Door Lock Control
- Door Locks Status
- Door Unlock
- Driver Priority Unlock
- E-Brake Status
- Entry Monitoring ALL Door Pins
- Entry Monitoring Hood Pin
- Entry Monitoring Trunk/Hatch Pin
- Factory Alarm Trigger Monitoring
- Fuel level/EV battery level
- Ignition Status
- Immobilizer Bypass-Data No Key Req'd
- Key2GO
- RAP Shut Down (Retained ACC Power)
- Remote Start Takeover
- SmartStart
- Tach / RPM Output
- Trunk / Hatch Release

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.

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Introduction

This guide provides information on the installation of the **DS3/DS3+** and **DS4/DS4+** modules as a digital solution. Using these modules in a digital configuration requires the module to be flashed with vehicle-specific firmware. Refer to our website (www.directechs.com) and click on the DIRECTLINK text in the header for additional information.

DS3/DS3+ and **DS4/DS4+** modules provide an all-in-one solution for most modern vehicles, and include remote start, keyless entry, security, and immobilizer bypass capabilities. T-harnesses may also be used in many applications for easy installation.

The following methods are available to configure modules:

- Web: www.directechs.com (**DS3/DS3+** and **DS4/DS4+**)
- Desktop application: Directlink DT (**DS3/DS3+** and **DS4/DS4+**)
- Mobile device: Directlink App (**DS4/DS4+** only)

When flashing via Directlink DT (desktop app) or via the Web, an XKloader2 will be required.



To configure via Web or DirectLink DT (desktop app):

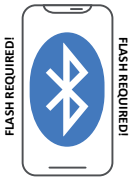
1. Disconnect the main module from any (+) 12V power source.
2. Connect the module to your computer using the XKLoader2.
3. Follow the steps in the pop-up window that will be displayed when the module is detected.

Notes:

- Flashing via web is only possible using Internet Explorer on Windows 8, 8.1, and 10.
- This method is not compatible with any other browser (Edge, Chrome, Firefox, etc.).
- When using Windows 11 or newer, Directlink DT is mandatory.



The **DS4/DS4+** module is designed to be configured using the DirectLink application through mobile devices. To download the DirectLink mobile application, visit the Google Play or Apple store. They can also be configured via Web and DirectLink DT. The **DS4/DS4+** features are built in Bluetooth® 4.0, allowing you to configure and control your system. The **DS3/DS3+** module is not equipped with Bluetooth®, therefore is not compatible with the DirectLink app for mobile devices.



To configure via DirectLink mobile app (Android/iOS):

1. Follow and complete the wiring diagram(s) related to your installation through the app.
2. When installation is complete, select **Configure DS4/DS4+**.
3. Follow the on-screen instructions.

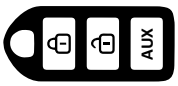
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Pre-installation and application warnings



This section highlights important information for this specific firmware and will assist in pricing accordingly, as well as bringing awareness to any operational or vehicle limitations.

Compatibilities and Requirements

T-Harness compatible		THHON11 or THHON9 - with vehicle takeover OR THHON1 - without vehicle takeover		**Keys required for programming** **1**	**Keys required for operation** **0**

Vehicle Takeover **Yes** ☒ – Refer to the **Quick Reference Guide** section for more details.

Firmware notes

- **Important!** Do not turn the vehicle's ignition ON with any OEM connectors unplugged. This may result in error messages being displayed in the instrument cluster, or hidden DTC codes.
- **IMPORTANT:** Modifications to the **THHON9** are required regardless of using with or without vehicle takeover. Refer to the **THHON9** T-Harness modification section for proper use of the **THHON9** T-Harness for steps and connection details.
- **Note: some features wont be available, such as VIN Request, Odometer, Fuel Level and more.**
- **T-Harness THHON11, THHON9, & THHON1notes:**
  - All T-Harness wires not listed in the diagram are not required for the installation. Loose wires such as Siren Output and Hood Input may need to be pulled from the tapped section of the T-harness. Refer to the "wiring diagram with T-Harness" for more information on connections and installation instructions.
  - All T-Harness wires not listed in the diagram are not required for the installation.
  - The OBDII Diagnostic Connector features will remain the same even when the T-Harness is installed.
  - The optional Plug & Play T-Harness is sold separately
- **Key2GO** may be required if the interface does not program using the traditional method. Refer to the "Module programming" section for more information.
- **Fuse positioning:** It is important to check that the fuses are positioned correctly in the module. Proper fuse positioning is displayed on each wiring diagram.
- All connectors are displayed from the wire side (unless specified otherwise).
- Refer to the "Vehicle connections" following the installation diagram.

Footnotes 1 2 3

[1] **Hood pin:** The installation of an aftermarket hood pin is only required on vehicles that are not equipped with a factory hood pin or not supported in data.

[2] **Siren:** The siren is only required when enabling the security features during module flashing.

[3] **Steering Lock:** The steering lock connection is only required if the connector is present in the vehicle.

[4] **PTS:** The PTS wire is mandatory in vehicles equipped with a manual transmission; otherwise it is only required for Pit Stop/Idle mode shutdown.

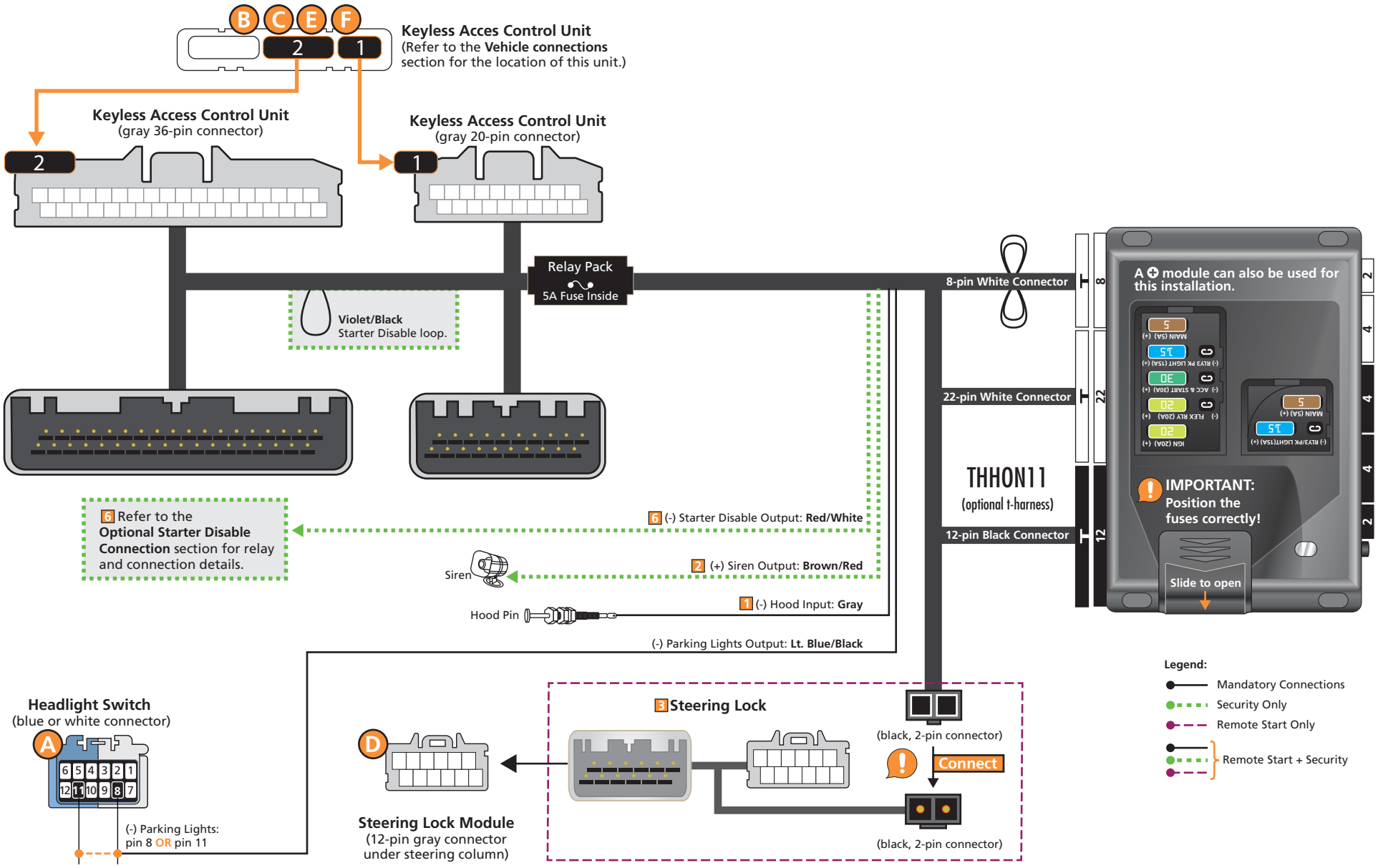
[5] **T-Harness:** When using a **THHON1** Rev. 1 or Rev. 2 T-harness and the OEM Remote Keyless Entry does not operate when a vehicle is remote started:
For Rev. 1: Cut and tape the white wire in pin 5 of the Black 12-pin harness connector.
For Rev. 2: Cut the white loop for Rev. 2.

[6] **Starter Disable:** Certain hybrid or electric vehicles may not support the Starter Disable feature. Please see the Vehicle Connections section of this guide to verify if your vehicle is compatible.

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Wiring diagram with T-Harness (THHON11) with Vehicle Takeover

Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).

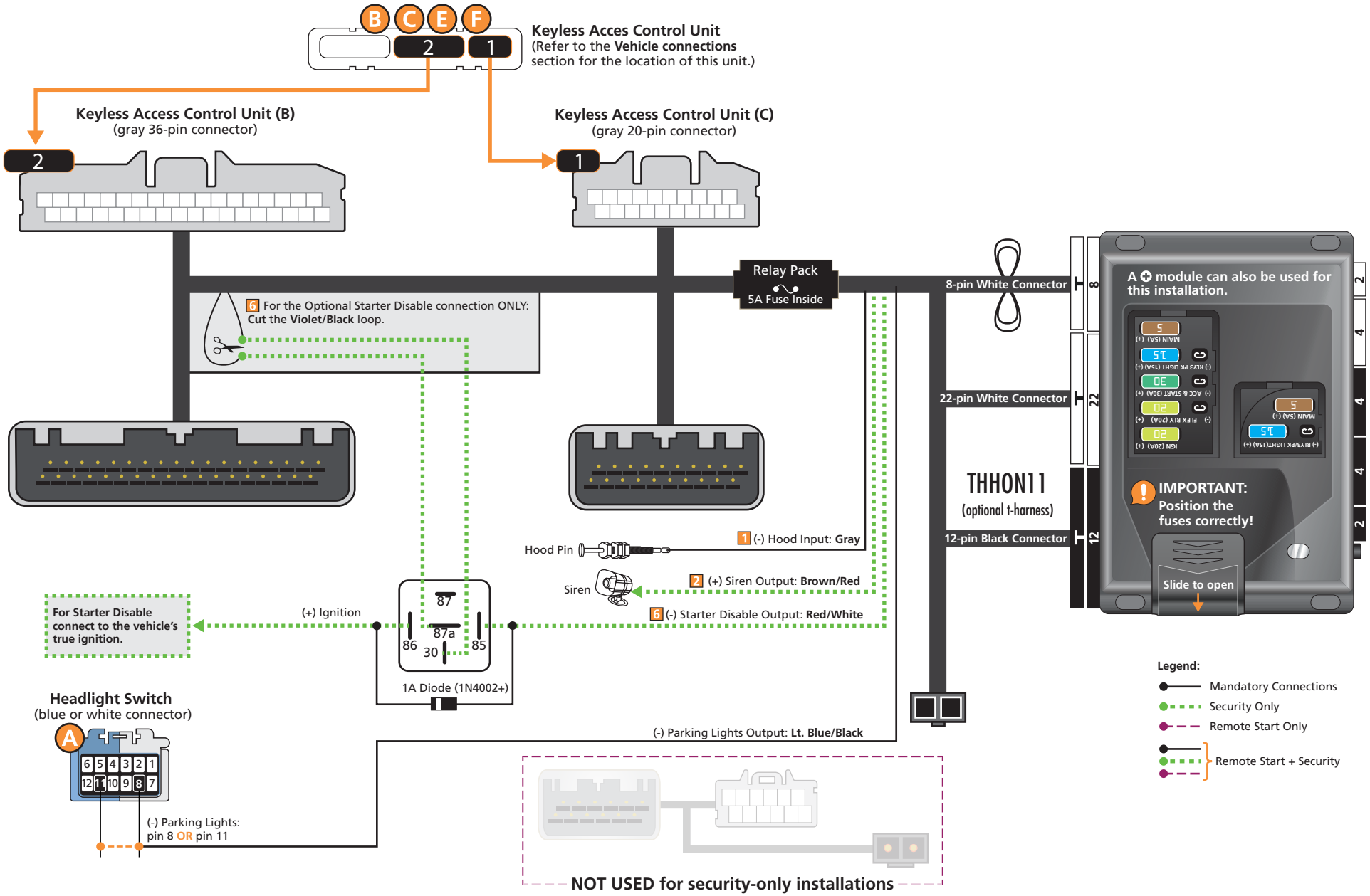


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Optional starter disable connection with T-Harness (THHON11) with Vehicle Takeover

Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).

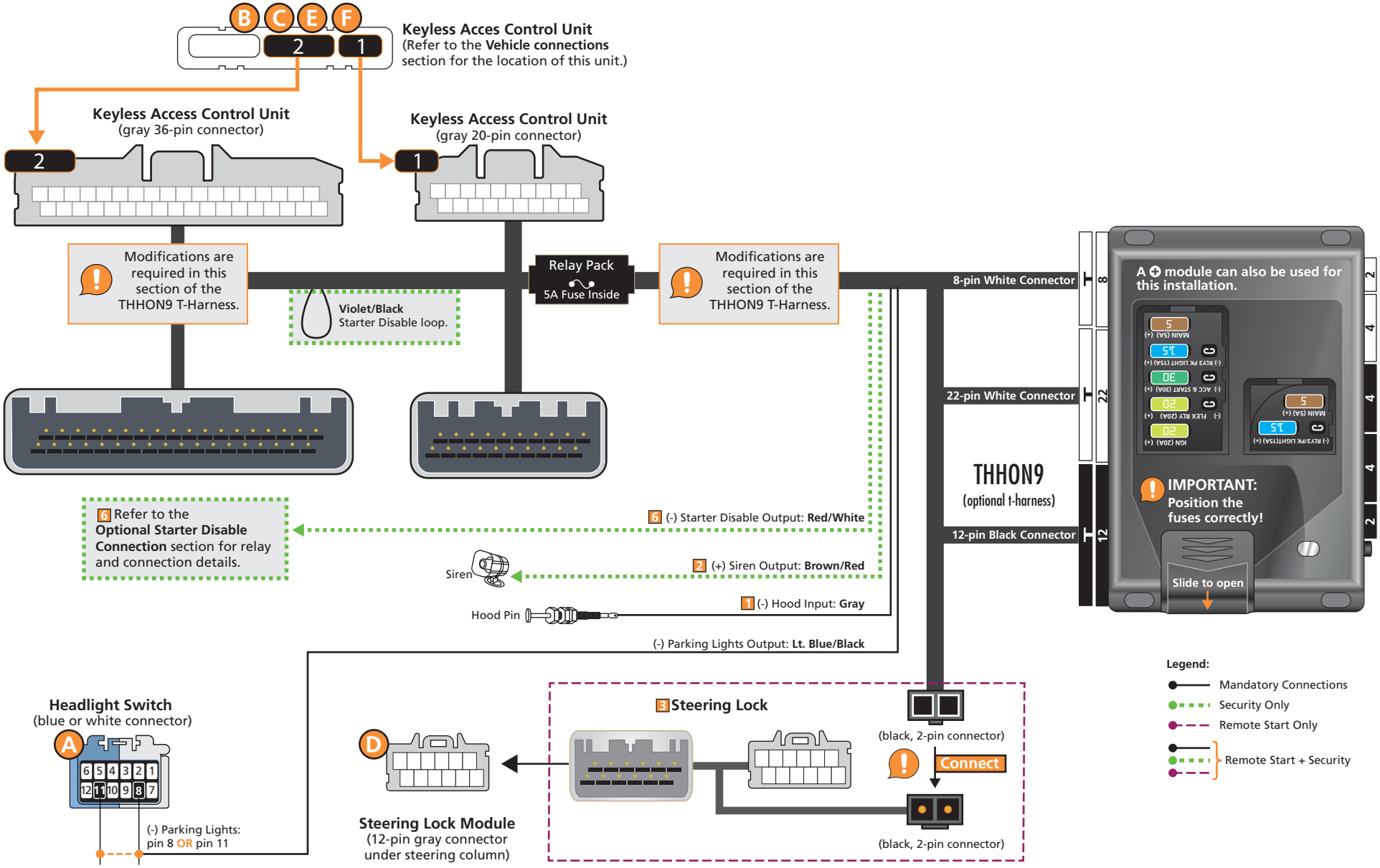


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Wiring diagram with T-Harness (THHON9) with Vehicle Takeover

Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).

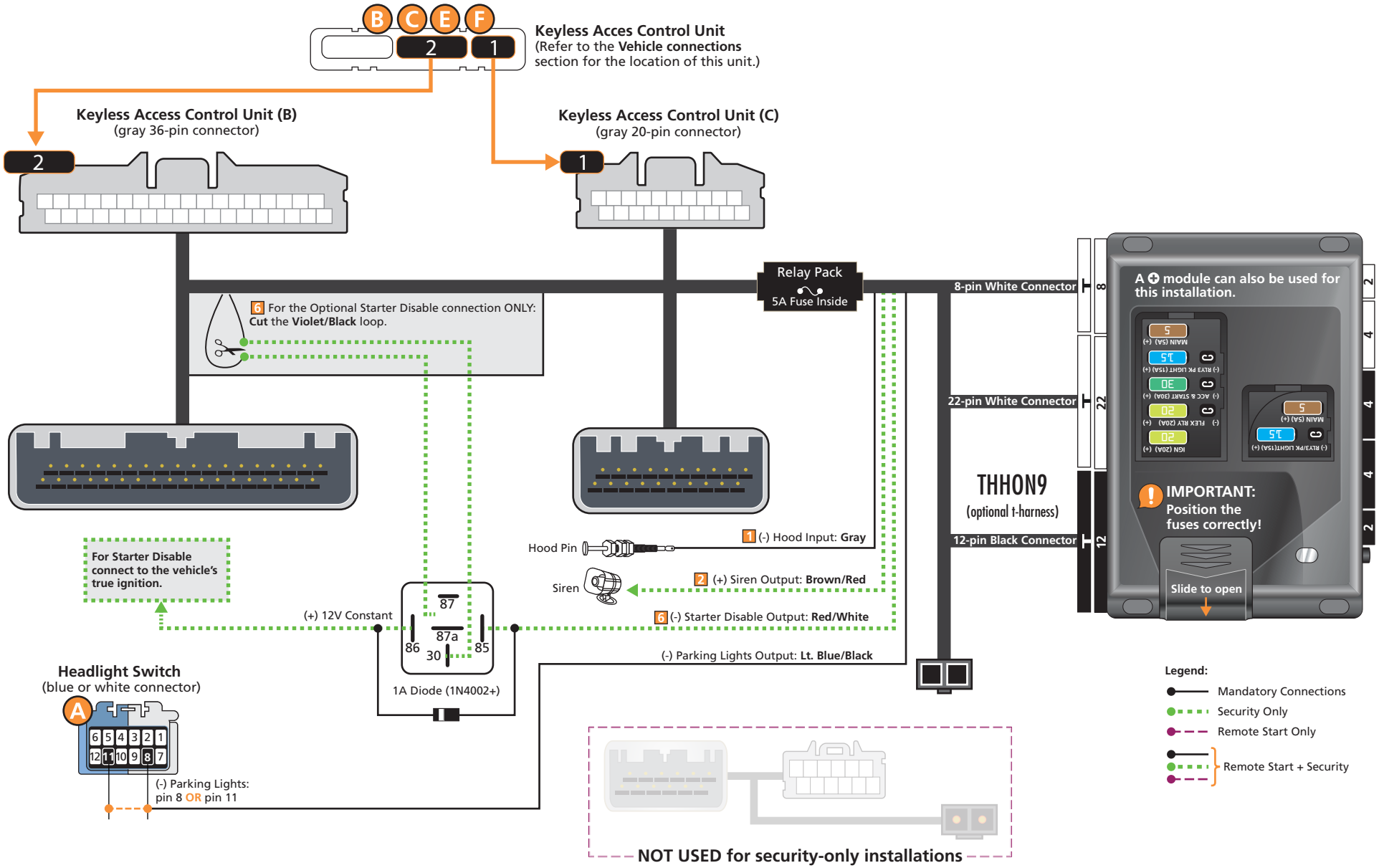


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Optional starter disable connection with T-Harness (THHON9) with Vehicle Takeover

Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).



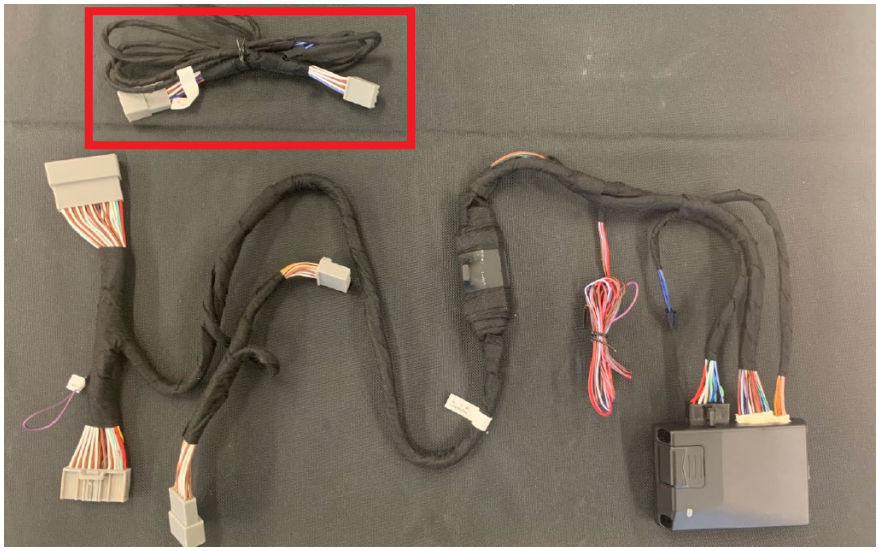
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THHON9 T-Harness modifications

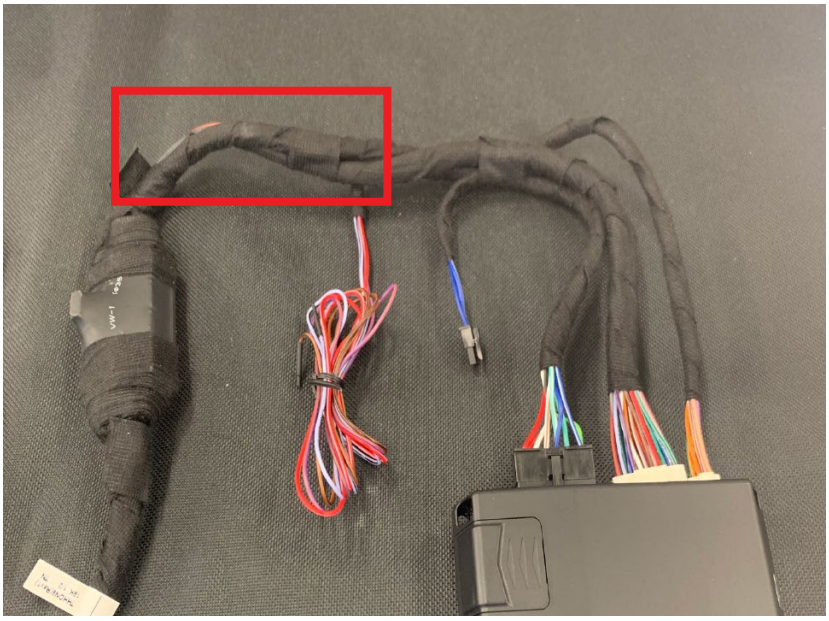
The following modifications to the THHON9 are required regardless of using with or without vehicle takeover and must be done before connecting it to the vehicle.

Note: The small gray connector shown highlighted in **red** does not require any modifications.



Step 1

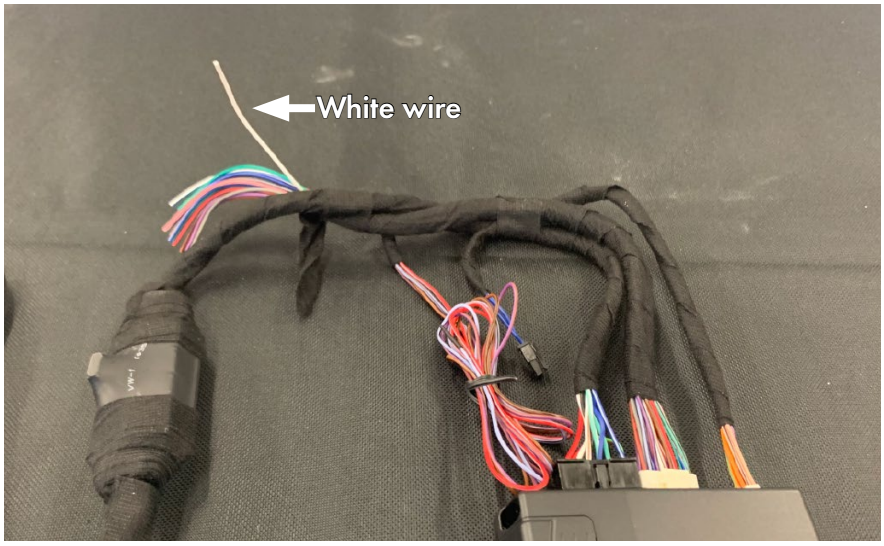
Remove the cloth tape near the relay pack to expose additional wiring.



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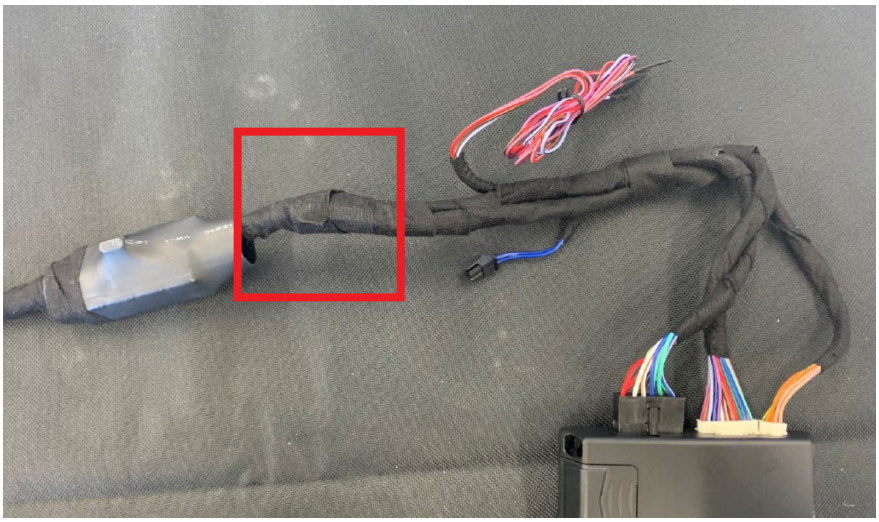
Step 2

Identify the White wire in the exposed wire section of the **THHON9** T-Harness shown below and pull out the White wire.



Step 3

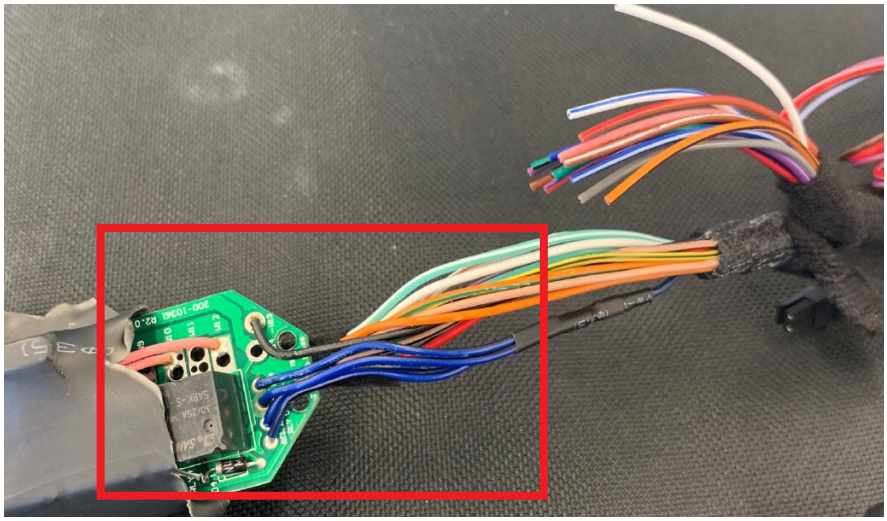
Remove the cloth tape on the relay pack.



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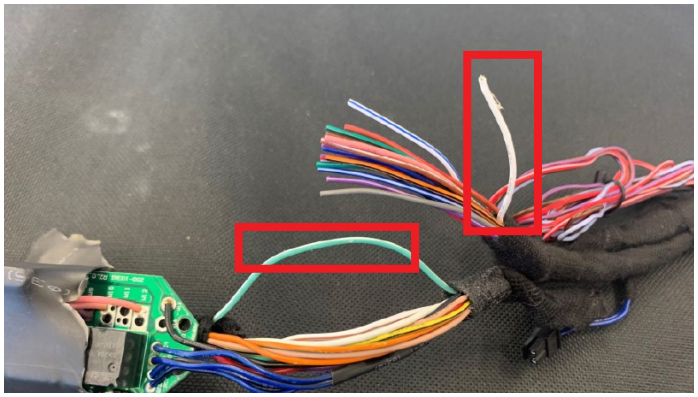
Step 4

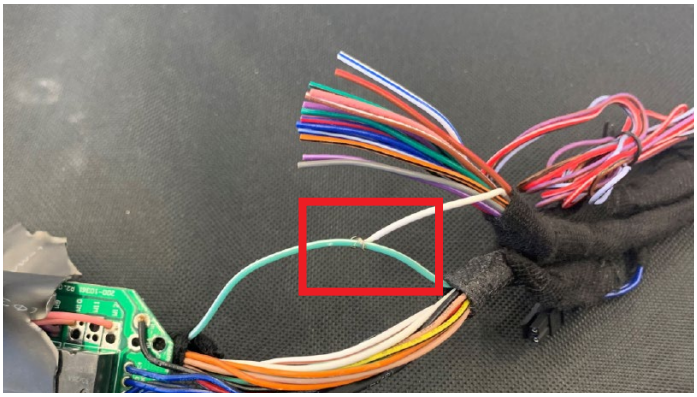
Remove part of the shrink wrap on the relay pack, as well as the tie wrap and cloth tape to expose additional wiring.



Step 5

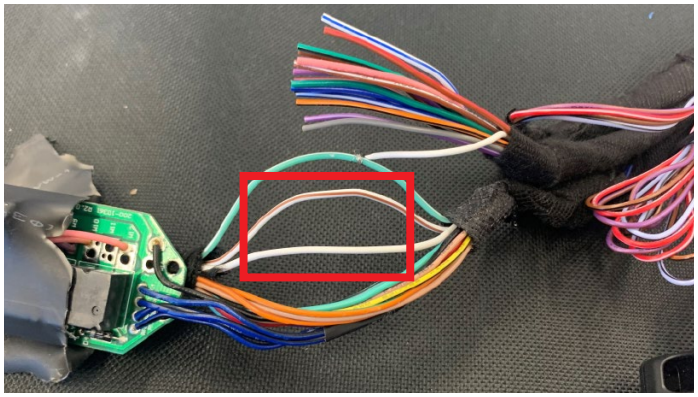
Pinpoint the Lt. Green/White wire in the exposed section. **Connect** the loose White wire to the loose Lt. Green/White wire.

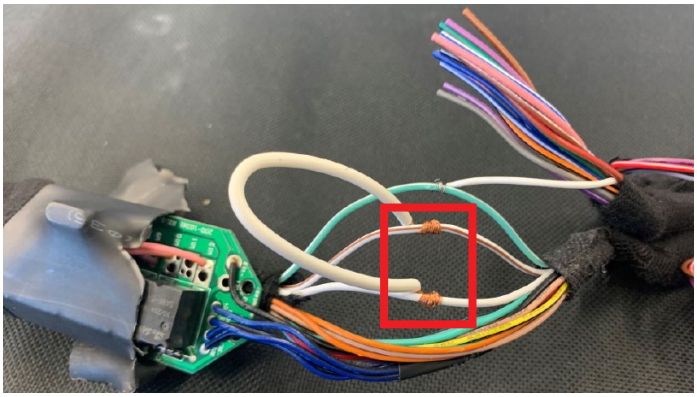




Step 6

Identify the exposed White and White/Brown wires and connect them together as shown.

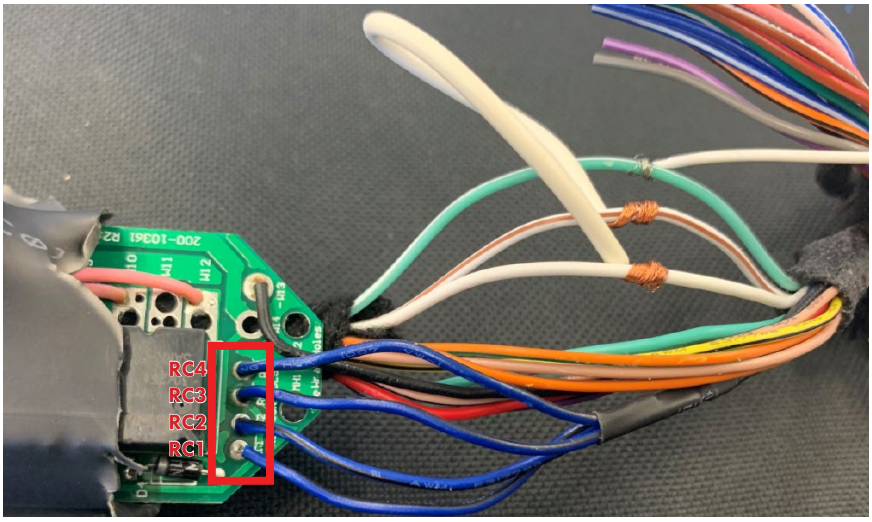




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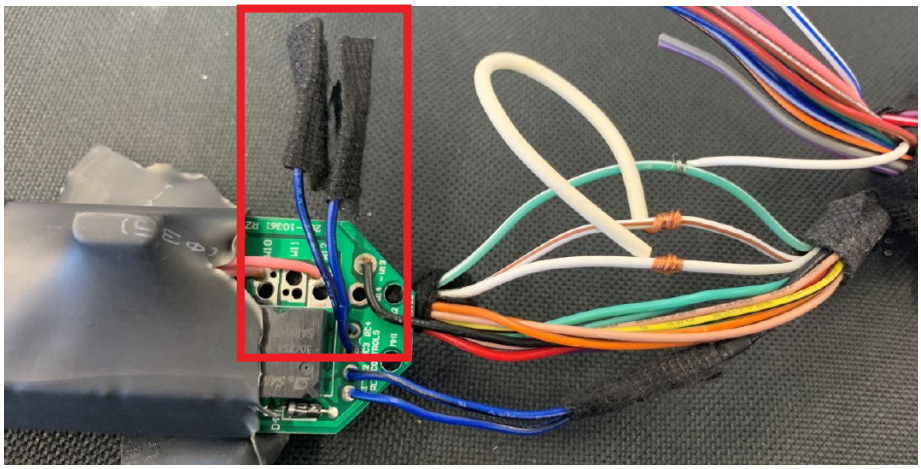
Step 7

Identify the four (4) Dk. Blue/Black wires on the PCB labeled **RC1, RC2, RC3** and **RC4.**



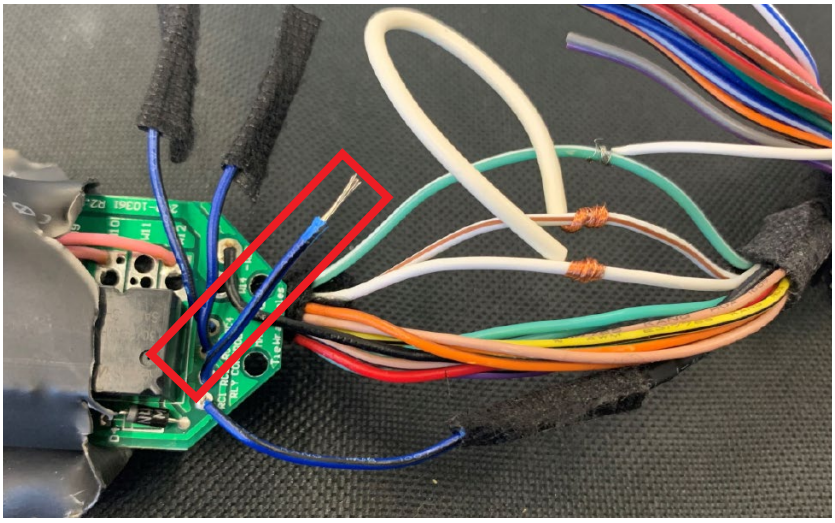
Step 8

Cut the Dk. Blue/Black wires labeled **RC3 & RC4**, then isolate them as they are no longer needed.



Step 9

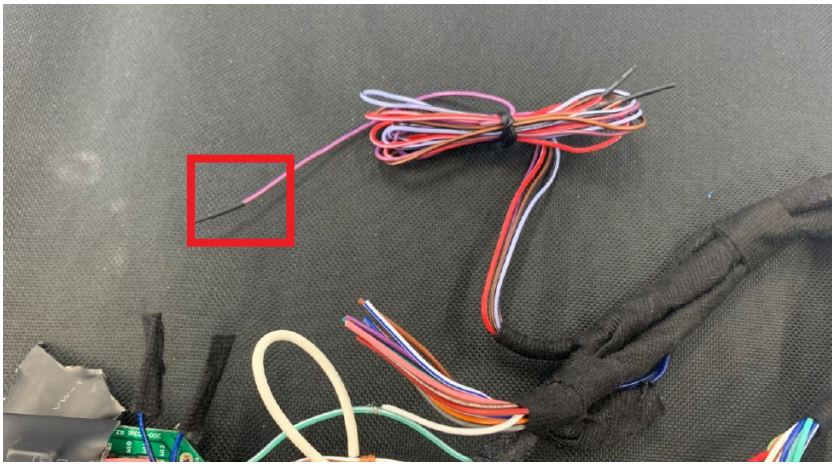
Identify and **cut** the Dk. Blue/Black wire on the PCB labeled **RC2**.



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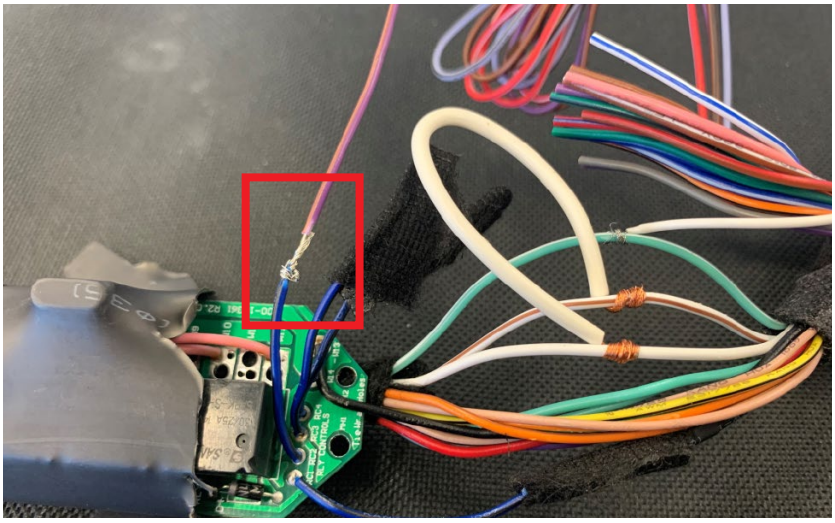
Step 10

Pinpoint the loose Violet/Brown MUX wire of the **THHON9** T-Harness.



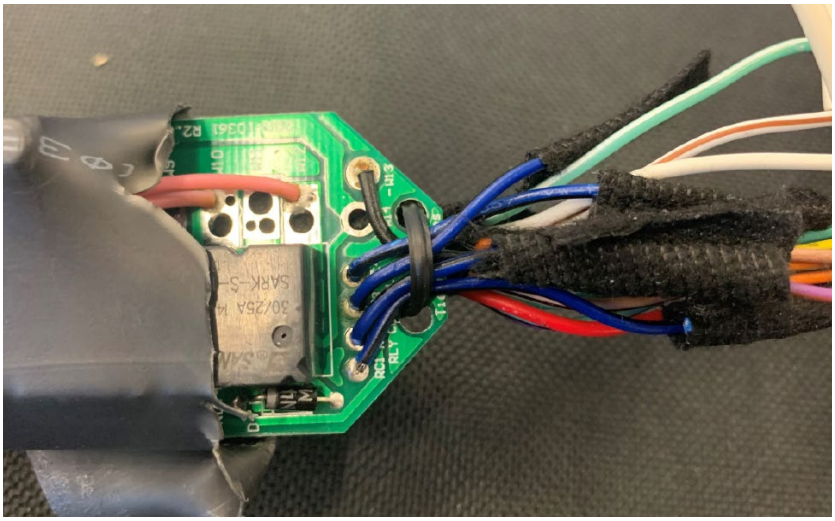
Step 11

Connect the Violet/Brown MUX wire to the Dk. Blue/Black wire labeled **RC2** as shown.



Step 12

Place a new tie wrap and ensure all connections are well taped and secure.

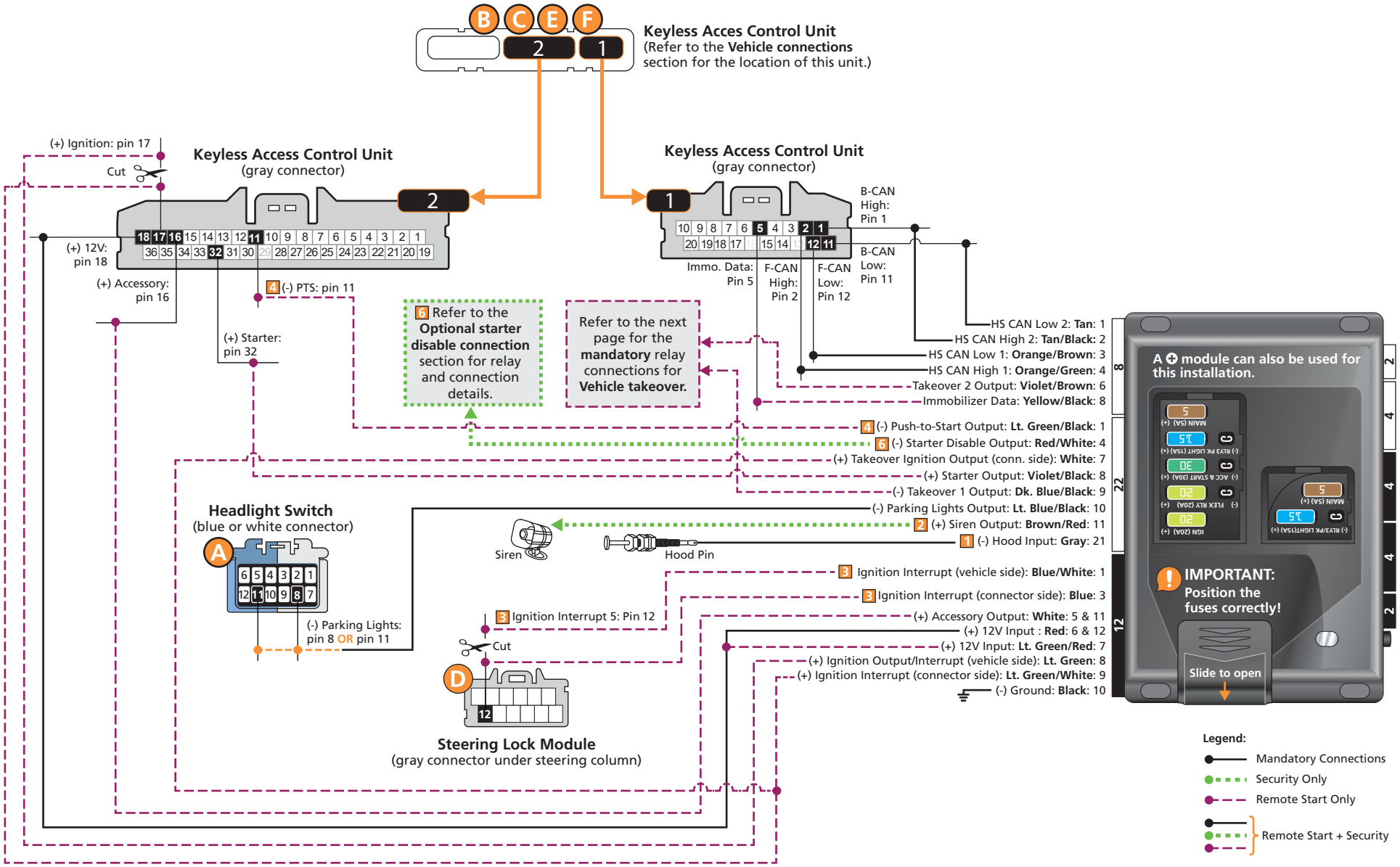


IMPORTANT! Ensure that all connections are done properly and taped.

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Wiring diagram with Vehicle Takeover

Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).

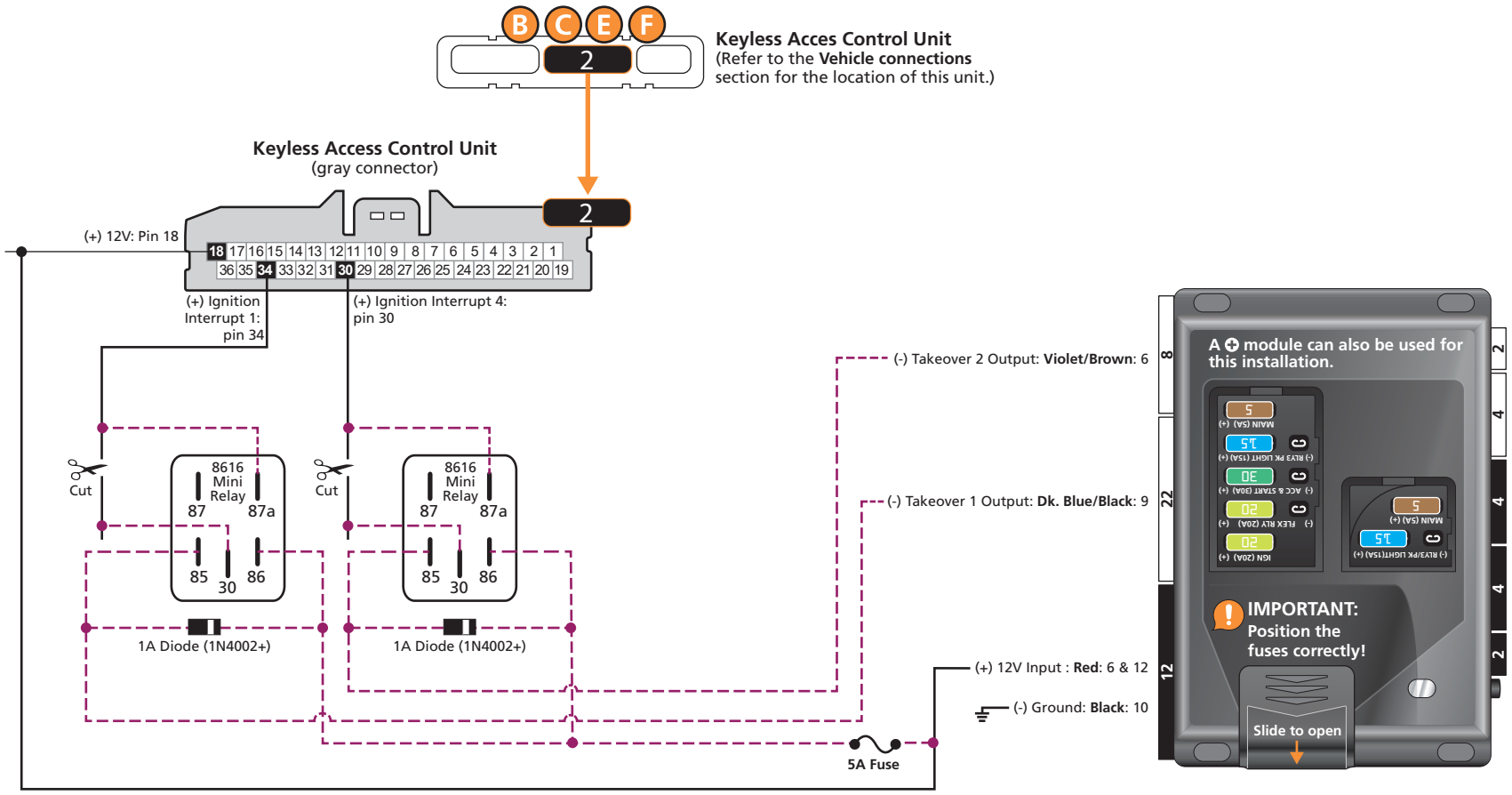


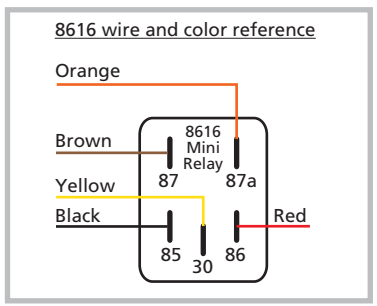
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Vehicle takeover additional connections

- Hardwire installations - required for takeover. For T-Harness installations, **DO NOT** make connections on this diagram, they have relays built-in.
- Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).



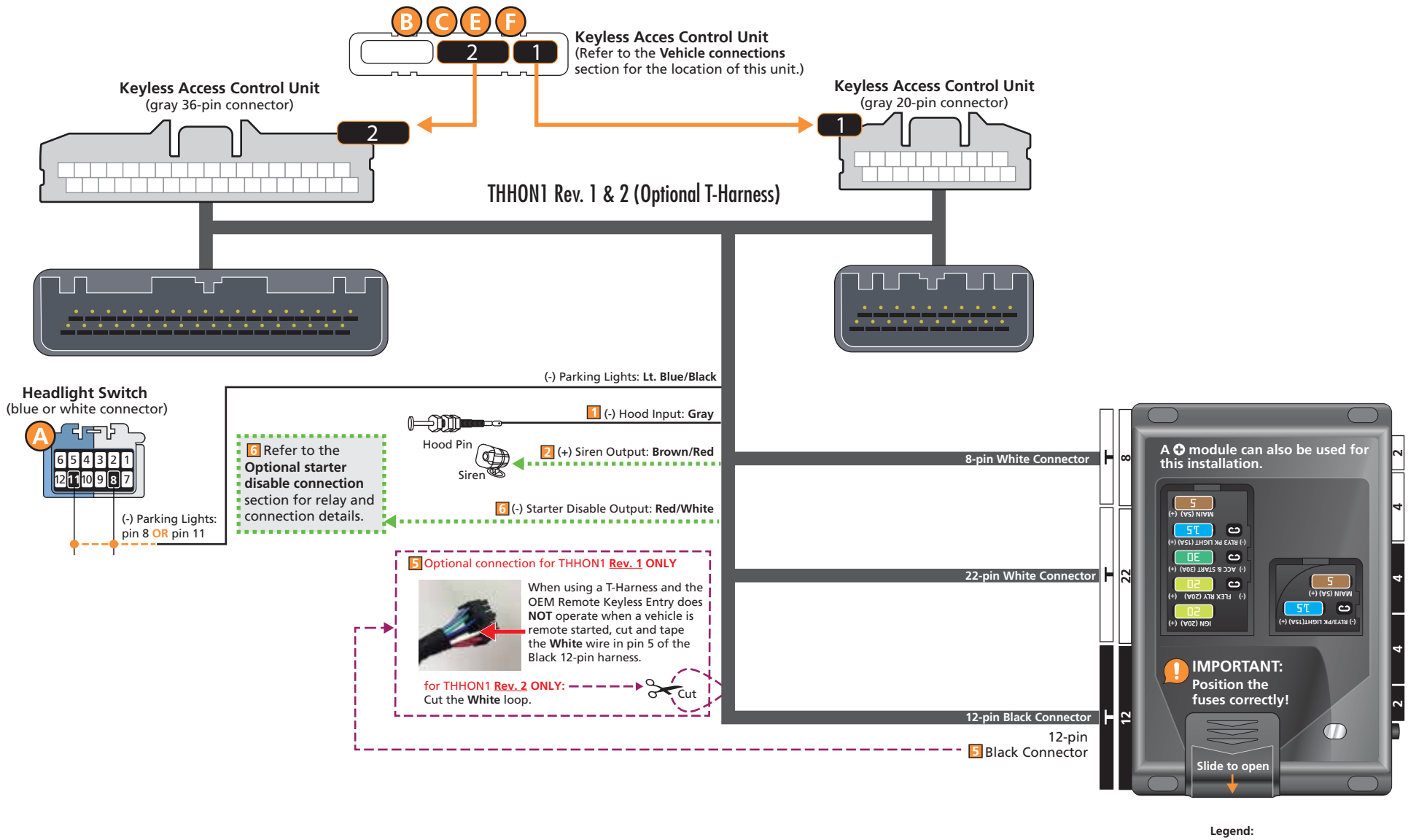


Legend:
- Mandatory Connections
- Security Only
- Remote Start Only
- Remote Start + Security

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Wiring diagram with T-Harness (THHON1 Rev. 1 & 2) without Vehicle Takeover

Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).

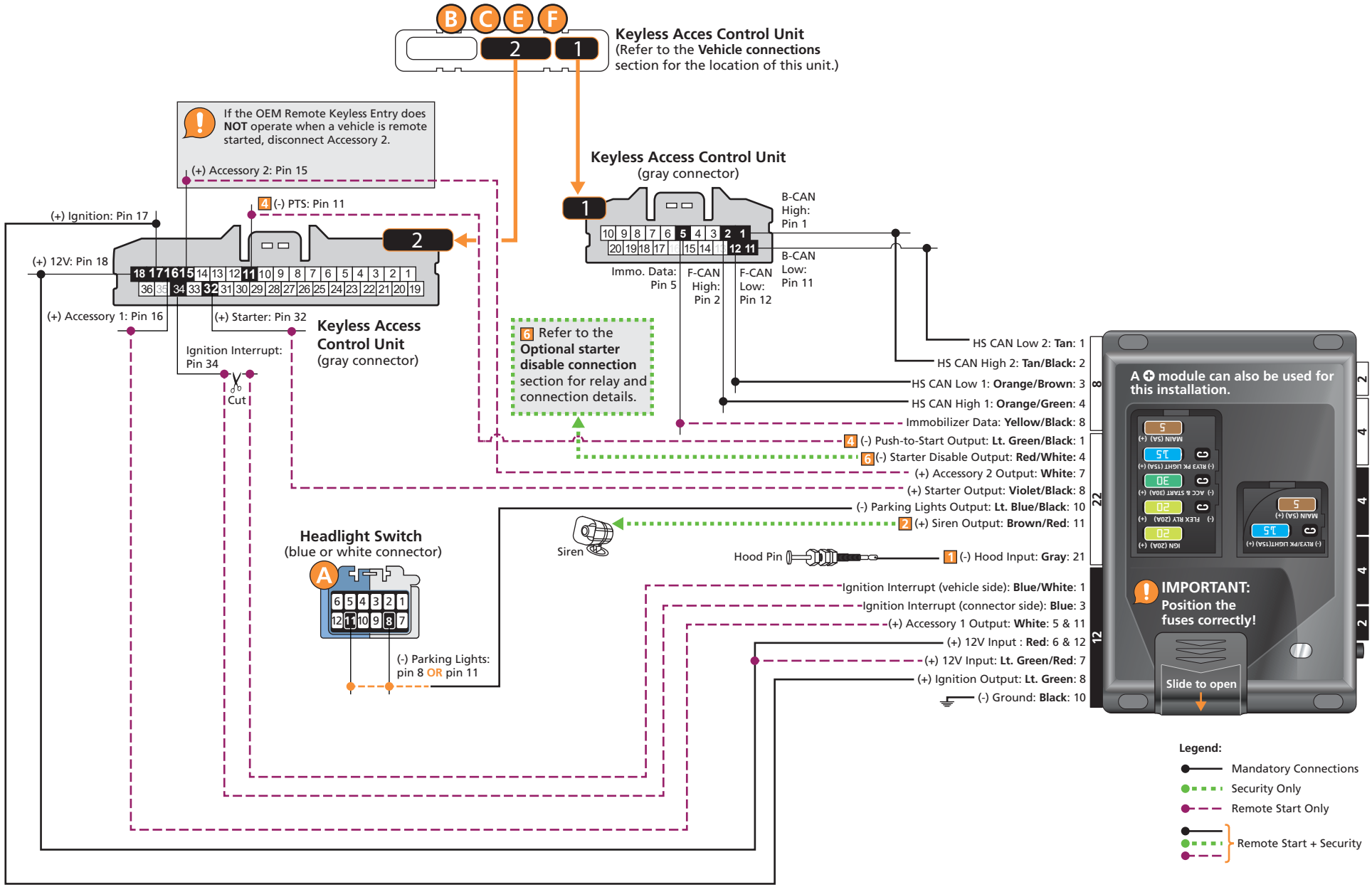


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Wiring diagram without Vehicle Takeover

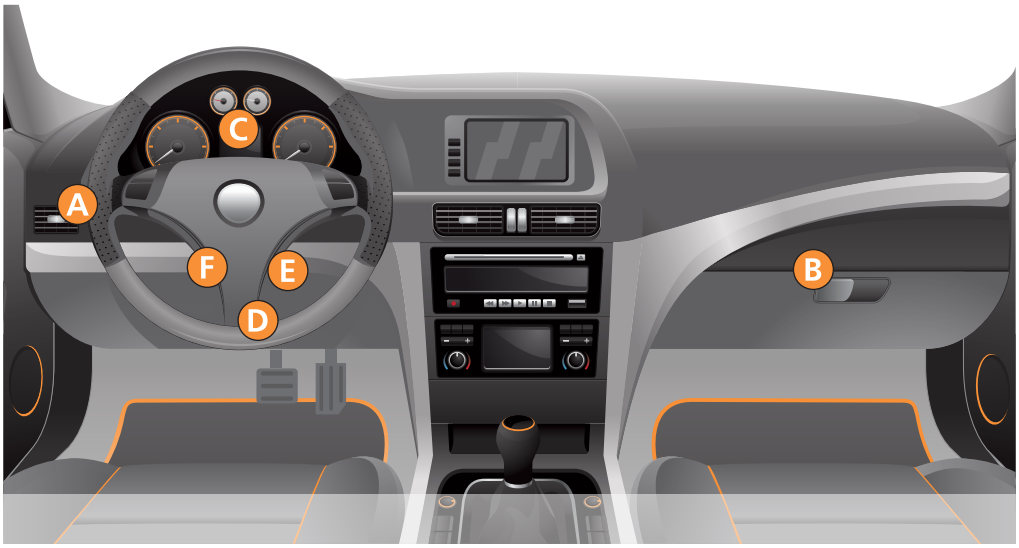
Refer to "Pre-installation and application warnings" for important information, such as the description of each special note referenced in the diagram (1 2 3).



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Locating components in the vehicle

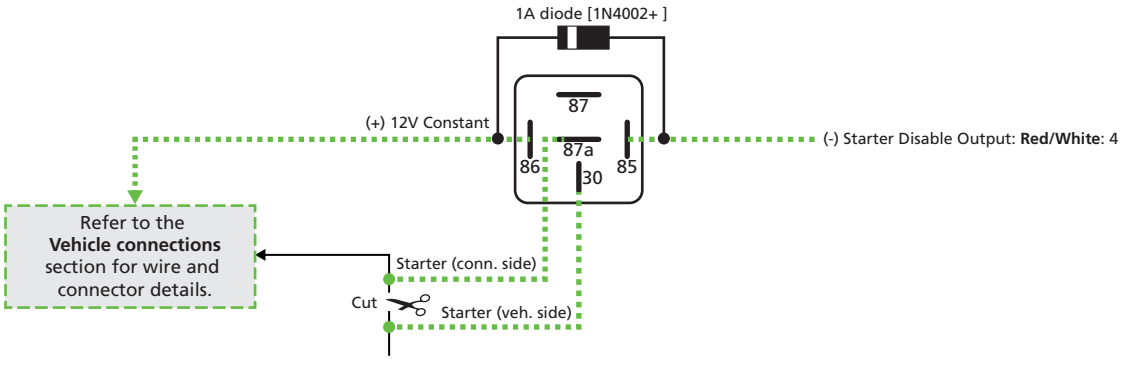


Vehicle	Keyless Access Control Unit Location
Acura ILX (Smart Key) 2016-2020	E right of steering column
Acura MDX (Smart Key) 2014-2020	B above glove box
Acura MDX Hybrid (Smart Key) 2017-2020	B above glove box
Acura RDX (Smart Key) 2016-2018	E right of steering column
Acura RLX (Smart Key) 2016-2020	F left of steering column
Acura RLX Hybrid (Smart Key) 2016-2020	F left of steering column

Vehicle	Keyless Access Control Unit Location
Acura TLX (Smart Key) 2015-2020	B above glove box
Honda Fit (Smart Key) 2015-2020	C behind instrument cluster
Honda HR-V (Smart Key) 2016-2021	C behind instrument cluster
Honda Odyssey (Smart Key) 2014-2017	E above gas pedal
Honda Pilot (Smart Key) 2016-2022	B above glove box
Honda Ridgeline (Smart Key) 2017 +	B above glove box

Optional starter disable connection CORE 198+

- When using an external relay, use a 1N4002 diode or larger.
- Certain hybrid or electric vehicles may not support the Starter Disable feature. Please see the Vehicle Connections section of this guide to verify if your vehicle is compatible.





Important: When flashing your module for **Security Only** or **Remote Start & Security**, the output used for Starter Disable must be set to **Starter Kill** or **AG Starter Kill** (if Anti-Grind is desired).

Note: On CORE versions prior to 198 and in certain vehicle applications, a different method of performing Starter Disable may be required. See Tech Bulletin **TB130** on Directechs.com for more information.

Legend:
- Mandatory Connections
- Security Only
- Remote Start Only
- Remote Start + Security

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Optional starter disable connection CORE 199+

For CORE 198 and earlier, or if the below configuration do not work for your specific vehicle, refer to **Tech Tip TB130**.

1

Choose Starter Disable Option:

When flashing the module for **Security Only** or **Remote Start & Security**, there are two configuration options:

- **Option A: Normally Closed (N.C.)**
  The starter functions normally unless the security system is armed and an ignition is sensed.
- **Option B: Normally Open (N.O.)**
  The starter is disabled by default and only enabled when the system is disarmed and ignition is sensed.

After selecting the desired option, refer to the corresponding wiring diagram below.

2

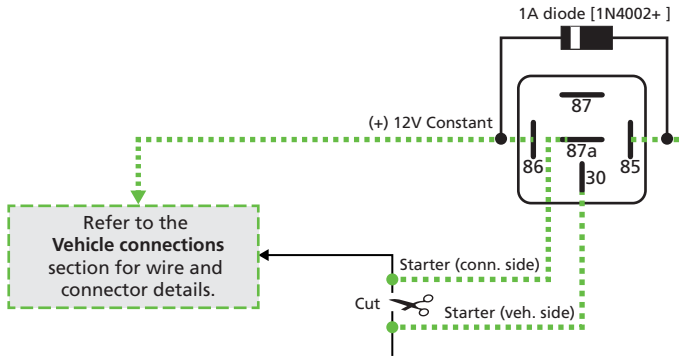
Configure desired Starter Disable Output:

The **Starter Disable Output** should be configured as one of the following:

- **Option A:** (N.C.) **Starter Kill** or (N.C.) **AG Starter Kill** (if Anti-Grind is desired);
- **Option B:** (N.O.) **Starter Kill** or (N.O.) **AG Starter Kill** (if Anti-Grind is desired).

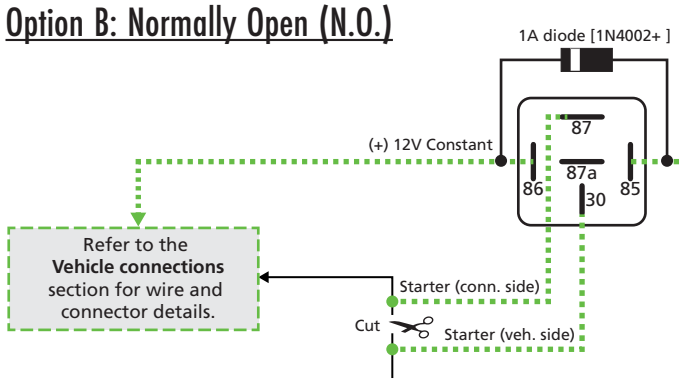
It is recommended to configure the suggested output shown in the wiring diagram; however any available negative (-) output can also be configured.

Option A: Normally Closed (N.C.) (Recommended)



OR Use the configured negative (-) output

Option B: Normally Open (N.O.)





Legend:

- Mandatory Connections
- Security Only

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Vehicle connections

The connection information listed below is specific to the 2016 Acura MDX (Smart Key). Refer to "Pre-installation and application warnings" for a list of important notes.

Data harness, 8-pin white connector (H1)

Module			Connects To			
Conn./Pin	**Color**	**Description**	**Wire Location**	**(+/-)**	**Wire Color**	**Connection**
H1/1	Tan	(DATA) HS CAN Low 2	Keyless Access Control Unit above glove box, gray 20 pin plug, pin 11	Data	Blue (B-CAN)	Mandatory
H1/2	Tan/Black	(DATA) HS CAN High 2	Keyless Access Control Unit above glove box, gray 20 pin plug, pin 1	Data	Pink (B-CAN)	Mandatory
H1/3	Orange/Brown	(DATA) HS CAN Low 1	Keyless Access Control Unit above glove box, gray 20 pin plug, pin 12	Data	Brown or Green (F-CAN)	Mandatory
H1/4	Orange/Green	(DATA) HS CAN High 1	Keyless Access Control Unit above glove box, gray 20 pin plug, pin 2	Data	White or Black (F-CAN)	Mandatory
H1/5	Lt. Green	No Connection	No Connection			
H1/6	Violet/Brown	(-) Takeover 2 Output - Required for installations WITH vehicle takeover ONLY.	Must use (1) 8616 mini relays. Must use (1) 1N4002 diode or larger. 5A fuse to 12V. Keyless Access Control Unit above glove box, gray 36 pin plug, pin 30	Cut	Yellow	Remote Start Only
H1/7	Orange/Black	No Connection	No Connection			
H1/8	Yellow/Black	(DATA) Immo. Data	Keyless Access Control Unit above glove box, gray 20 pin plug, pin 5	Data	Violet (S-NET)	Remote Start Only

Analog input/output harness, 22-pin white connector (H2)

Module			Connects To			
Conn./Pin	**Color**	**Description**	**Wire Location**	**(+/-)**	**Wire Color**	**Connection**
H2/1	Lt. Green/Black	(-) PTS Output [4]	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 11 The PTS wire is mandatory in vehicles equipped with a manual transmission; otherwise it is only required for Pit Stop/Idle mode shutdown.	-	Gray	Remote Start Only
H2/2	Blue/White	(-) Clutch Activation Output	No Connection			
H2/3	Dk. Green/Black	(-) Lock Output	No Connection			
H2/4	Red/White	(-) Starter Disable Output	Starter: Dash Fuse Box, 32 pin plug (F), pin 20 (with auto idle stop); pin 1 (w/o auto idle stop) (+) 12V Input:: Keyless Access Control Unit above glove box, gray 36 pin plug, pin 18 Must use a relay. Must use a 1N4002 diode or larger. Refer to the Optional Starter disable connection section for relay and connection details.	+ +	Green (with auto idle stop); White (w/o auto idle stop) Green (10A)	Security Only
H2/5	*Brown/Black*	*(-) Horn Output*	*Horn Switch-Clock Spring, 20 pin plug, pin 10*	-	*Violet*	*Optional*
H2/6	Brown/White	(-) AUX 1 Output	No Connection			
H2/7	White	(+) Takeover Ignition Output or (+) Accessory 2 Output	- Required for installations WITH vehicle takeover ONLY. Keyless Access Control Unit above glove box, gray 36 pin plug, pin 17 - Required for installations WITHOUT vehicle takeover ONLY. Keyless Access Control Unit above glove box, gray 36 pin plug, pin 15	+ +	Pink White	Remote Start Only
H2/8	Violet/Black	(+) Starter Output	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 32	+	Lt. Blue	Remote Start Only

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Module			Connects To			
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color	Connection
H2/9	Dk. Blue/Black	(MUX) Takeover 2 Output - Required for installations WITH vehicle takeover ONLY.	Must use (1) 8616 mini relays. Must use (1) 1N4002 diode or larger. 5A fuse to 12V. Keyless Access Control Unit above glove box, gray 36 pin plug, pin 34	Cut	Blue	Remote Start Only
H2/10	Lt. Blue/Black	(-) Parking Light Output	Headlight Switch, 12 pin plug, pin 8	-	Gray	Mandatory
H2/11	*Brown/Red*	*(+) Siren Output* [2]	*The siren is only required when enabling the security features during module flashing.*			*Security Only*
H2/12	Pink	(+) Ignition Sense Input	No Connection			
H2/13	Violet	(+) Door Trigger Input	No Connection			
H2/14	Brown	(+) Brake Input	No Connection			
H2/15	White/Blue	(-) Activation Input	No Connection			
H2/16	Red/Blue	(-) Headlight Detection Input	No Connection			
H2/17	Black/White	(-) E-Brake Input	No Connection			
H2/18	Orange/Black	(+) Instant Trigger Input	No Connection			
H2/19	Blue	(-) Trunk Trigger Input	No Connection			
H2/20	Green	(-) Door Trigger Input	No Connection			
H2/21	*Gray*	*(-) Hood Switch Input* [1]	*The installation of an aftermarket hood pin is only required on vehicles that are not equipped WITH a factory hood pin or not supported in data.*			*No Connection*
H2/22	Violet/White	(AC) Tach Input	No Connection			

Main harness, 12-pin black connector (H3)

Module			Connects To			
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color	Connection
H3/1	Blue/White	Relay N.C. - Ignition Interrupt (vehicle side) [3]	Required for installations WITH vehicle takeover ONLY. Steering Lock Module under steering column, gray 12 pin plug, pin 12 Required for installations WITHOUT vehicle takeover ONLY. Keyless Access Control Unit above glove box, gray 36 pin plug, pin 34 The steering lock connection is ONLY required if the connector is present in the vehicle.	Cut Cut	Blue Blue	Remote Start Only
H3/2	Blue/Red	Relay N.O. - No Connection	No Connection			
H3/3	Blue	Relay COM. - Ignition Interrupt (conn. side) [3]	Required for installations WITH vehicle takeover ONLY. Steering Lock Module under steering column, gray 12 pin plug, pin 12 Required for installations WITHOUT vehicle takeover ONLY. Keyless Access Control Unit above glove box, gray 36 pin plug, pin 34 The steering lock connection is ONLY required if the connector is present in the vehicle.	Cut Cut	Blue Blue	Remote Start Only
H3/4	White/Brown	Relay N.C. - (+) Accessory Interrupt 1 (connector side)	No Connection			
H3/5	White	Relay COM. - (+) Accessory Output	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 16	+	Blue	Remote Start Only
H3/6	Red	(+) 12 Volt Input	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 18	+	Green (10A)	Mandatory

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Module			Connects To			
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color	Connection
H3/7	Lt. Green/Red	Relay N.O. - (+) 12 Volt Input	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 18	+	Green (10A)	Remote Start Only
H3/8	Lt. Green	Relay COM. - (+) Ignition Output/Interrupt (vehicle side)	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 17	+	Pink	Mandatory
H3/9	Lt. Green/White	Relay N.C. - Ignition Interrupt (conn. side)	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 17 Required for installations WITH vehicle takeover ONLY.	+	Pink	Remote Start Only
H3/10	Black	(-) Ground			(chassis ground)	Mandatory
H3/11	White	Relay COM. - (+) Accessory Output	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 16	+	Blue	Remote Start Only
H3/12	Red	(+) 12 Volt Input	Keyless Access Control Unit above glove box, gray 36 pin plug, pin 18	+	Green (10A)	Mandatory

Relay harness, 10-pin white connector (H4)

Module			Connects To			
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color	Connection
H4/1	N/A	No Connection	No Connection			
H4/2	Red/Black	(+) 12 Volt Input	No Connection			
H4/3	Pink/Black	Flex Relay (pin 87a)	No Connection			
H4/4	Pink/White	(+) Flex Relay Output	No Connection			
H4/5	Red	(+) 12 Volt Input	No Connection			
H4/6	Green	Starter Input (conn. side)	No Connection			
H4/7	Violet	(+) Starter Output (vehicle side)	No Connection			
H4/8	Orange	(+) Accessory Output	No Connection			
H4/9	Red/White	(+) 12 Volt Input	No Connection			
H4/10	Pink	(+) Ignition Input/Output	No Connection			

RF Port harness, 2-pin white connector (H5)

Module		
Conn./Pin	Color	Description
H5/1	N/A	RF Loop
H5/2	N/A	RF Loop

D2D harness, 4-pin white (1) and black (2) connectors (H6)

Module		
Conn./Pin	Color	Description
H6/1	Blue	(Data) TX
H6/2	Black	(-) Ground
H6/3	Green	(Data) RX
H6/4	Red	(+) 12 Volt

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Temperature sensor harness, 2-pin black connector (H7)

Module			Connects To			
Conn./Pin	Color	Description	Wire Location	(+/-)	Wire Color	Connection
H7/1	*Black*	*Temperature Sensor*				*No Connection*
H7/2	*Black*	*Temperature Sensor*				*No Connection*

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Module programming

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

For Security-Only and Convenience-Only programming, see next sections.

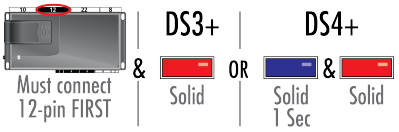
(This module programming sequence is only compatible with v.2.23+)

1 IMPORTANT! The vehicle battery must be in good condition and fully charged for successful programming. A battery charger may be connected during programming if necessary.

2 Ensure vehicle is in a safe location, and cannot move forward during programming. For vehicles equipped with a manual transmission, make sure the gearshift is in the neutral position.

3 Connect the 12-pin main power harness to the module.

DS3+: Wait until the LED turns ON solid red then proceed to the next step.
DS4+: The LED turns ON solid blue for 1 second to confirm Bluetooth communication. Wait until the LED turns ON solid red, then proceed to the next step.



4 Connect the remaining harnesses to the module.



5 Press the Push-to-Start (PTS) button once (1) to turn ignition ON.

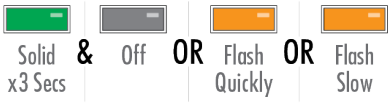


6

-If the LED turns ON solid green for 3 seconds then shuts OFF, module programming sequence is completed, proceed to step 8 to pair remote(s).

-If the LED starts flashing orange quickly, cycle the ignition by pressing the PTS button once (1) to turn the ignition OFF, then press once (1) more to turn the ignition back ON.
Note: If LED does not start flashing orange slowly, please check the CAN connections and restart this step.

-If the LED starts flashing orange slowly, additional **Key2GO programming** steps below are required.



7

Key2GO Programming

1. Press the PTS button once (1) to turn the ignition OFF then press once (1) more to turn the ignition back ON. The LED starts flashing orange slowly.
2. Remove the module from the vehicle, and reconnect it to your computer. The web site will automatically recognize that you are moving onto the second phase of the programming sequence.
3. Click on **Submit Key2GO Request**.
4. Once the configuration is completed, reconnect the module.
5. The LED turns ON solid green for 3 seconds then shuts OFF.



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Pair remotes (if applicable).

8 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. Your aftermarket remote may differ from the model shown in the illustration.



9 DATA/Hardwired Tach Learning:
When using Data Tach, it is recommended to follow the Tach Learning procedure; however, when using a Hardwired Tach, the procedure is mandatory.

For more information, refer to the Tach Learning procedure section.



You have successfully completed the module programming sequence.

If having issues programming the module, please see the Module Programming Troubleshooting section in this guide.

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Module programming troubleshooting

If firmware programming fails or does not complete successfully, perform the following procedure.

1. Perform a soft reset.
2. Close all doors, including the hood trunk.
3. Fully depress the brake pedal and press Push-to-Start (PTS) button to start the vehicle.
4. Verify that the vehicle starts successfully.
5. Turn the vehicle off.
6. Resume module programming at Step **5**.

Note: Some warning messages may appear due to temporarily disconnecting the BCM connectors. Driving the vehicle for a short distance should clear these messages.

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Module programming for convenience features only (skip transponder)

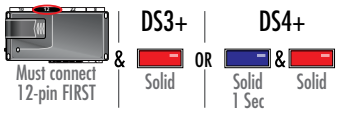
Refer to "LED diagnostics and troubleshooting" for more information and for troubleshooting purposes.

1 Ensure vehicle is in a safe location and cannot move forward during programming. For vehicles equipped with a manual transmission, make sure the gearshift is in the neutral position.



2 Connect the 12-pin main power harness to the module.

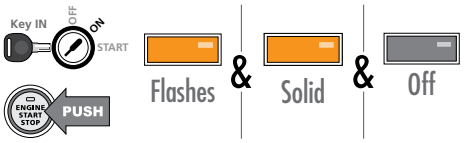
DS3+: Wait until the LED turns ON solid red then proceed to the next step.
DS4+: The LED turns ON solid blue for 1 second to confirm Bluetooth communication. Wait until the LED turns ON solid red, then proceed to the next step.



3 Connect remaining harnesses to the module then press the programming button five (5) times. The LED turns ON solid orange.



4 Turn ignition ON.
The LED flashes orange, then come solid orange then shuts OFF.

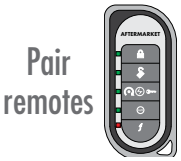


5 Turn ignition OFF.



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



You have successfully completed the module programming sequence.

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Module programming for security-only installations

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

1 Ensure vehicle is in a safe location and cannot move forward during programming. For vehicles equipped with a manual transmission, make sure the gearshift is in the neutral position.



2 Connect the 12-pin main power harness to the module.

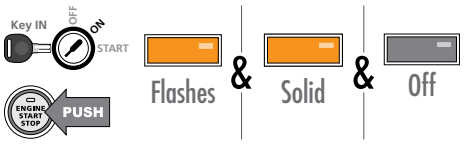
DS3+: Wait until the LED turns ON solid orange then proceed to the next step.
DS4+: The LED turns ON solid blue for 1 second to confirm Bluetooth communication. Wait until the LED turns ON solid orange, then proceed to the next step.



3 Connect the remaining harnesses to the module.



4 Turn ignition ON.
The LED flashes orange, then come solid orange then shuts OFF.



5 Turn the ignition OFF.



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. Your aftermarket remote may differ from the model show in the illustration.



You have successfully completed the module programming sequence.

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Pairing Remotes and Sensors

To enter pairing:

1 Turn the vehicle ignition to the ON position.



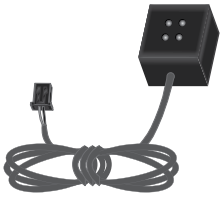
2 Within 10 seconds, on the Control Center (antenna) or the LED/Valet Pod (standalone switch), press and release once (1x), and then press and hold the programming button until the LED starts flashing, then release the button. Your antenna may differ from the model shown in the illustration.



Pairing remotes: Follow the remote-specific instructions to complete the pairing process. This information can be found in the RF kit's owner's guide, "QR2" Tech Tip, and on the DS3/DS4 Quick Reference Install guide.

Pairing sensors: Sensors should be connected to the DS3/DS4 module prior to connecting the 12-pin main power harness. When powered up, connected peripherals will pair automatically.
In the event where a sensor needs to be re-paired, repeat the steps above. Connected devices will become registered within four to six (4-6) seconds. No further action is required.

8556T Temperature Sensor



The 8556T Temperature Sensor is optional, but included with your DS3+/DS4+ module.

When used, the Temperature Sensor must be plugged into the 2-pin black connector of your module.

Note: When the system is configured as a remote starter, the temperature is reported by the 8556T Temperature Sensor. When security features are enabled, it is reported by the 8504D Combo Sensor.

8504D Combo Sensor

The 8504D Combo Sensor is optional, but included with the purchase of a DS4SU security package.



The Combo Sensor is preset for the majority of applications; however, it can be adjusted using the DirectLink application, as well as a compatible LED or LCD remote. Please refer to the instructions included with the DS4SU for more information on how to make adjustments.

Note: When the system is configured as a remote starter, the temperature is reported by the 8556T Temperature Sensor. When security features are enabled, it is reported by the 8504D Combo Sensor.
IMPORTANT: The Combo Sensor must be paired to the device before it can be used.

RF Systems

An RF System consists of one or multiple remotes, a Control Center (antenna), and an antenna cable – various combinations exist. An RF System 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.

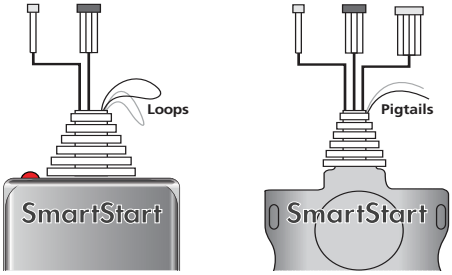
When used in conjunction with Directed SmartStart®

To enable D2D communication between the DS3+/DS4+ and the Directed SmartStart® one of the following actions must be performed before providing power to the Directed SmartStart® unit:

SmartStart with **Loops** – The brown loop must be cut.

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SmartStart with **Pigtails** – The gray wire must be connected to a ground source.



DO NOT connect the Directed SmartStart® 2-pin power harness when using the DS3+/DS4+. Power and ground will be provided by the D2D connector on the module. Refer to the Directed SmartStart® documentation for further details.

D2D port configuration

Caution! Do not connect the Control Center (antenna) or any digital sensors (8504D) to the white D2D1 port.

The white D2D1 port is reserved ONLY for SmartStart, Module flashing or 3rd Party bypass. The two black D2D2 ports are reserved for the Control Center (antenna) and digital sensors (8504D).

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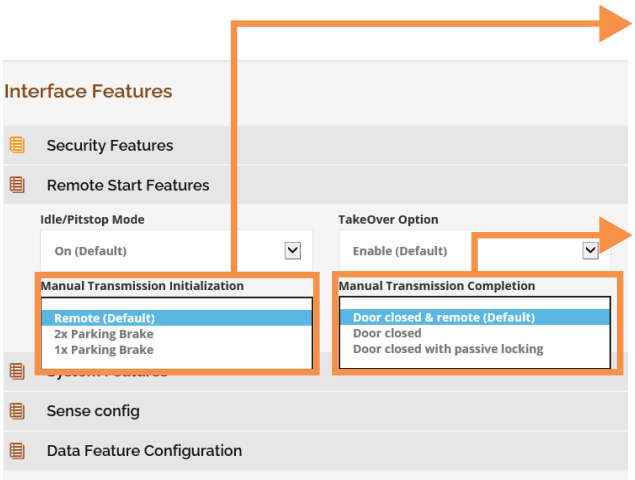
Manual Transmission

IMPORTANT! Directed does not approve nor support installations of manual transmission and remote starts on any electronic vehicles (EV), OEM Remote Start Activation firmware, vehicles with convertibles and/or removable tops, including but not limited to Jeep Wrangler, Honda S2000, Mazda Miata, and other such vehicles.

This system supports manual transmission installations; however, not all vehicles and firmware versions are compatible. If your vehicle is supported, you will be prompted to select either Automatic or Manual transmission during the module flashing process.
Refer to "Directwire" section at www.directechs.com for further information on vehicle-specific wiring connections.

When flashing the module for Manual Transmission on the Directechs website:

1. In the **Remote Start Features** section, select the desired configurations for Manual Transmission Initialization & Manual Transmission Completion.



Manual Transmission Initialization
Sets how the manual transmission sequence is initialized

Feature visible to	Installer
Remote (Default)	With foot on brake, set e-brake, remove foot brake, press ANY button on Directed remote. Ready mode is activated. Parking lights will flash 5 times confirming.
2x Parking Brake	With foot on brake, setting the parking brake ON, OFF, ON within 10 seconds then removing foot brake will initialize the manual transmission ready mode. Parking lights will flash 5 times confirming.
1x Parking Brake	With foot on brake, setting the parking brake ON then removing foot brake will initialize the manual transmission ready mode. Parking lights will flash 5 times confirming.

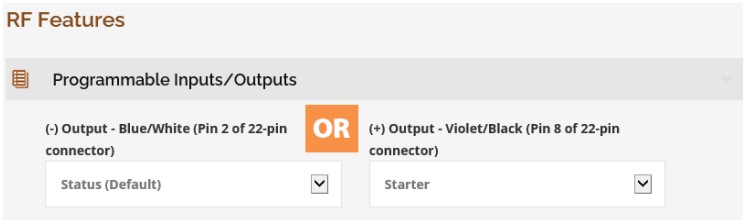
Manual Transmission Completion
Sets how the manual transmission sequence is ended.

Feature visible to	Installer
Door closed & Remote (Default)	To complete the manual ready mode sequence and shut down the remote start, turn off the ignition (engine stays running), exit the vehicle with your keys, shut all doors and press lock on the Directed remote.
Door closed with passive locking	To complete the manual ready mode sequence and shut down the remote start, turn off the ignition (engine stays running), exit the vehicle with your keys, 8 seconds after the last door is closed, the remote starter will shut down, the door will automatically lock and the system will arm at the same time.
Door closed	To complete the manual ready mode sequence and shut down the remote start, turn off the ignition (engine stays running), exit the vehicle with your keys, 8 seconds after the last door is closed, the remote starter will shut down. Doors will stay unlocked.

Note 1: For PTS vehicle specific instructions, please see the bottom of the "Vehicle Specific Install Guide" for manual transmission sequence procedures.

Note 2: The trunk input trigger is considered a "door" for manual ready mode. If trunk or any other door is opened, manual transmission ready mode will be canceled.

2. In addition, if no Clutch Output is pre-configured in the firmware, an output can be configured when flashing the module under the **Programmable Input/Output** section. Use any available positive (+) or negative (-) outputs depending on the polarity of the clutch switch listed on Directwire, set it to **Starter**.



3. Note: A Relay may be required depending on your vehicle.
See Tech Tips 10000 - Clutch Bypass for Remote Start - https://directechs.blob.core.windows.net/techtips/10000.pdf

4. Additional connections may be required if these functions are not supported by the firmware.

Connection	Description
(-) E-Brake Status Input (Black/White, pin 17)	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 Trigger Input (Green, pin 20) OR (+) Door Input (Violet, pin 13)	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. **Note**: Some vehicles may require unique integration methodologies for this circuit. For more information, refer to www.directechs.com.
(AC) Tachometer Input (Violet/White, pin 22)	Must be connected to a working tachometer signal in the vehicle (fuel injector, ignition coil, true tach, etc.) and learned successfully to the DS4+.

See Tech Tips 10001 - https://directechs.blob.core.windows.net/techtips/10001.pdf

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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
Off	Module has no power.	Make sure the D2D harness is connected and that 12 Volt is present between the red and black wires. If 12 Volt is present, the module may be defective.
Solid blue	Confirmation of Bluetooth communication (Applicable to DS4/DS4+ ONLY).	Normal operation.
Solid red	Waiting to begin the programming sequence.	Ensure the correct programming procedure is being followed.
Flashes green & red	Initialization failed.	Reset the module and complete the programming again. If the issue persists, please contact Technical Support.
Solid orange	Transponder functions were skipped.	(If compatible) when RXT mode is not desired or convenience features are needed, please reset the and reprogram the module.
Flashes green	All required CAN networks has been detected.	Normal operation.
Flashes orange	1 of 2 CAN networks has been detected.	Normal operation.
Flashes orange slowly	Key2GO initiated.	Please follow the steps indicated in “Module programming” to complete the Key2GO programming.
Solid green x 3 secs	Module was successfully programmed with all functions.	Normal operation.
Solid orange x 3 secs	Module was successfully programmed without transponder functions.	Normal operation.

Analog Error Codes

LED	Description	Troubleshooting
Flashes red, green & orange	DEI feature error.	A feature config file mismatch was detected. Please contact Technical Support.

Module Programming - Error codes

LED	Description	Troubleshooting
Flashes red x 1	CAN2 not detected.	Check the CAN2 Orange/Green and Orange/Brown wire connections. Wake up the data bus by turning the ignition on and try again. If your installation does not require this connection, skip this step by pressing the programming button 5 times.
Flashes red x 1	J1850 not detected.	Check the J1850 wire connection. Wake up the data bus by turning the ignition on and try again.
Flashes red x 2	CAN1 not detected.	Check the CAN1 Tan and Tan/Black wire connections. Wake up the data bus by turning the ignition on and try again. If your installation does not require this connection, skip this step 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. Ensure the vehicle still operates correctly using the factory key.
Flashes red x 4	Bypass processing error.	The bypass calculation failed. Reset the module and try again. If the condition persists, please contact Technical Support.
Flashes red x 5	ISO 1 not detected.	The Yellow/Black wire did not detect the expected signal. Refer to “Installation (wiring diagrams & vehicle wiring reference charts)” to check the connections.
Flashes red x 6	ISO 2 not detected.	The Orange/Black wire did not detect the expected signal. Refer to “Installation (wiring diagrams & vehicle wiring reference charts)” to check the connections.
Flashes red x 7	MUX not detected.	The Violet/Green or Violet/Brown wire did not detect the expected voltage value. Refer to “Installation (wiring diagrams & vehicle wiring reference charts)” to check the connections.

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External Module Synchronization

LED	Description	Troubleshooting
(Flashes red, red, then orange) x 10	OBDII feature not supported.	The diagnostic data bus was not detected, therefore the SmartStart features will be limited.

Active Ground When Running (Status)

LED	Description	Troubleshooting
Flashes green	Ground When Running (Status) command received.	The module has initialized the remote start sequence.
Flashes red & orange	Ignition ON command received.	The module has received the Ignition ON command and is processing the remote start sequence.
Flashes green quickly	Start ON command received.	The module has received the Start ON command and is processing the remote start sequence.
Flashes red x 10	PTS shutdown error.	The PTS output from the module was not activated due to safety protection.
Flashes red x 21	CAN bus incorrectly detected.	Verify the CAN1 and CAN2 connections. Refer to "Installation (wiring diagrams & vehicle wiring reference charts)" to check the connections.

Commands

LED	Description	Troubleshooting
Flashes orange x 1	LOCK command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 2	UNLOCK command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 3	TRUNK command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 4	AUX1 command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 5	AUX2 command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.
Flashes orange x 6	AUX3 command received.	If the bypass module fails to flash, it did not receive the signal. Commands can come from RF or D2D.

Shutdown Codes

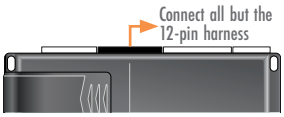
LED	Description	Troubleshooting
Flashes green x 1	Takeover successful.	Normal operation.
Flashes red x 1	Runsafe was not disabled.	No UNLOCK command was received prior to opening the door, or the 45 second timer expired in takeover mode.
Flashes red x 2	Brake was not detected.	The brakes were not detected, which prevents the system from shutting down the vehicle.
Flashes red x 3	Smart key was not detected.	The smart key was not detected, which prevents the system from shutting down the vehicle.
Flashes red x 4	Speed was detected.	The vehicle was detected as moving, which prevents the system from shutting it down.

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Soft reset

A module reset will only erase the steps perfomed in “Module Programming”. The firmware and settings flashed to the module will not be affected.

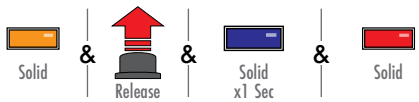
1 If required for your installation, connect all the harnesses to the module, EXCEPT the 12-pin main power harness. Press and hold the programming button, then connect the 12-pin harness to the module.



2 **DS3+**: Wait 3 seconds until the LED turns ON solid orange then release the programming button.
The LED turns ON solid red.



DS4+: Wait 3 seconds until the LED turns ON solid orange then release the programming button.
The LED turns ON blue for 1 second then solid red.

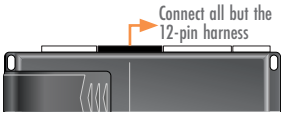


Hard reset

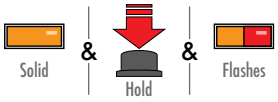
Warning Against Executing a Hard Reset!

A hard reset will revert the flashed firmware back to its default factory 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.

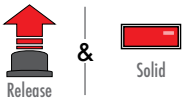
1 If required for your installation, connect all the harnesses to the module, EXCEPT the 12-pin main power harness. Press and hold the programming button, then connect the 12-pin harness to the module.



2 After 3 seconds the LED turns ON solid orange. Keep holding the programming button until the LED flashes red, then orange slowly.



3 **DS3/DS3+**: Release the programming button. The LED turns solid red.



DS4/DS4+: Release the programming button. The LED turns ON blue for 1 second then solid red.



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Tach learning procedure (not needed with Virtual Tach)

Data Tach: The procedure is not required as the tach comes preprogrammed. However, it is strongly recommended to learn the exact value of the vehicle for the most consistent and reliable starting and functionality.

Hardwired Tach: The procedure is required.

Before starting the procedure: In the *Data Sense* settings menu, if using Data Tach, ensure the *Sense Tach Status* option is set to **On** or **Enabled**. If using Hardwired Tach, ensure the option is set to **Off** or **Disabled**.

To perform the Tach Learning procedure:

1. Start the vehicle using the key.
2. Within 5 seconds, press and hold the Control Center (antenna) or Valet Pod button until the LED turns on Solid. OR Within 5 seconds press and hold the IPB (integrated programming button) on the main module, until the LED turns ON solid green.
3. Release the button. Tachometer value is now stored in memory.

If the LED does not turn ON solid, find an alternate tach source.

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 hard or soft module reset must be done.

Note:

- 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.
- Virtual Tach can disengage the starter motor during remote starting; however, it does not address over-rev. If the customer requests the over-rev protection capability, the tach wire or data tach must be used.
- Virtual Tach cannot be used in Manual Transmission Mode. It is also not recommended for diesel vehicles.
- To reset Virtual Tach, a hard or soft module reset must be done.

Hybrid Vehicles

For some Hybrid vehicles without Data Tach, it may be necessary to change the Engine Checking Mode option to the OFF setting and adjust the Cranking Time setting to 2.0 or 4.0 seconds.

CAUTION: When configuring the Engine Checking Mode option to the OFF setting, there is no way to monitor or confirm if the vehicles engine is actually running. Therefore, there is no Over-Rev protection. If the vehicle attempts to remote start, but is unsuccessful, the remote start will keep the ignition on for the entire runtime period.

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Limited Lifetime Consumer Warranty

DIRECTED BY VOXX LLC (the Company) warrants to the original purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within the Lifetime from the date of original purchase in the original vehicle, such defect(s) will be repaired or replaced with new or reconditioned product, (at the Company's option) without charge for parts or repair labor. A transmitter for a vehicle security or remote start system is warranted for 12 months from the date of original purchase.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), authorization number, specification of defect(s), transportation prepaid, to an approved warranty station. This warranty is not transferable.

This Warranty does not cover damage to the vehicle's electrical system or costs incurred for the installation, removal or reinstallation of the product. This Warranty does not cover batteries, broken LCD transmitter display screens, nor apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, abuse, neglect, accident, or by removal or defacement of the factory serial number/
bar code label(s).

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The company does not warrant that this product cannot be compromised or circumvented. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT WITHOUT INSTALLATION LABOR.

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Quick Reference Guide (customer copy)

Sending commands to your vehicle

Whether you want to remote start the engine, lock/unlock the doors or pop the trunk, there are 3 possible ways you can send commands to your vehicle, using the:

1. Factory remote.
2. Aftermarket remote.
3. Directed SmartStart® application via your smartphone.

If applicable, you can also start the engine remotely by pressing the Lock button 3 times quickly on your factory remote.

Important: Wait at least 2 seconds before restarting the engine or an error message can appear on the vehicle information display.

The **Vehicle takeover** feature is **not** available on the following vehicles:

- 2022+ Honda Civic (Smart Key) & 2025+ Honda Civic Hybrid (Smart Key)
- 2023+ Honda CR-V (Smart Key) & Honda CR-V Hybrid (Smart Key)
- 2023+ Honda HR-V (Smart Key)
- 2026+ Honda Passport (Smart Key)

The engine will shut down as soon as a door is opened.

Vehicle takeover with Get In and Go

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

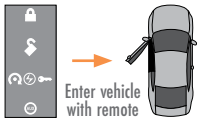


2 Press the Unlock button on the factory or aftermarket remote.*



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.



4 Depress the brake pedal for a minimum of 3 seconds, put the car in gear and drive off.
For Manual Transmission, press and hold the clutch first, then depress the brake pedal for a minimum 3 seconds.



* Icon and remote appearance may differ depending on the model purchased.

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 PTS button to perform a takeover. There is therefore a physical action required to drive away. With Get In and Go, 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 drive off.

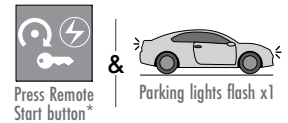
Pit stop/idle mode

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



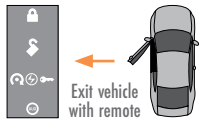
2 Press the Remote Start button on the transmitter.*

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



3 Exit the vehicle with the factory remote in hand (it is safe to leave the engine running).

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



* Icon and remote appearance may differ depending on the model purchased.

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List of available commands

Note that the information below is for many Viper®, Clifford®, Python®, Avital®, Automate®, Autostart® and AstroStart® models. Icons and commands may differ depending on the model and options purchased. Refer to your authorized installation center for more specific information.

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

* Icon and remote appearance may differ depending on the model purchased.

Directed SmartStart® Bluetooth® compatibility (DS4/DS4+ ONLY)

This system is equipped with a Bluetooth® version of Directed SmartStart® offering up to 200' of range. The simple graphical interface gives you control over the following features of your installed remote start system or security with remote start system:

- Lock/Arm
- 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 Directed SmartStart®! But, this is only the beginning! Directed SmartStart® is loaded with additional features including GPS tracking, SmartSchedule, vehicle status, roadside assistance, parked car finder and more.

The application enables a "Cloud-Connected Car" like never before, providing 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.

Notes

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