APS48Z
Vehicle Security / Keyless Entry System

Installation and Reference Guide

Thank you for trusting Prestige products! **If you are a consumer,** please note:
Professional installation is strongly recommended.

This manual assumes the installer has adequate knowledge of the following expertise. Therefore, it does not cover these topics in detail:

- **12-volt electronics**
- **Testing and verifying circuits**
- **Making safe and lasting wiring connections**
- **Factory ignition, power, lighting, data bus and sensing systems**
- **Factory systems and components to avoid**
- **Safe wire routing, circuit protection and product placement**
- **Access to vehicle-specific technical information**

In addition, this manual assumes the installer has the **proper tools, skill and facilities** to perform a professional installation. **Performing an improper installation could result in damage to the vehicle or its components, improper system function, unsafe vehicle operation or physical injury.** Such instances would not be covered by the vehicle manufacturer's warranty, nor by Voxx Electronics, Inc.

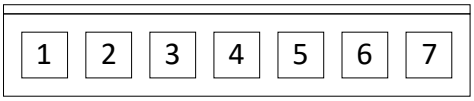
Detailed Descriptions

Quick Reference

Detailed Descriptions: Wire Harness Colors and Functions

Main Input / Output Connector (7-pin connector) See page 11 for the full system diagram.

These wires are listed in order of their placement in the harness connector.



1. DARK BLUE – Trunk Release Output (-)
At its default setting, the DARK BLUE wire connects to the vehicle trunk release wire or relay and supplies Ground (-) when activated from the remote control.
Verification: The vehicle trunk release wire registers 12-Volt (+) or Ground (-) when the trunk release button is activated.
Note: Additional parts are required to a positive (+) trunk release circuit.

2. ORANGE – Starter Kill Output N.C. (-)
The ORANGE wire supplies Ground (-) when the alarm is armed.

3. PURPLE – Door Trigger Input (+)
The PURPLE wire connects to the vehicle's door trigger wire. This wire will detect a 12-Volt (+) input.
Verification: The vehicle door trigger wire registers 12-Volt (+) when a door is opened and opposite when closed.
Note: If the door trigger registers as Ground (-) when a door is opened, use the BROWN (Pin 4) input.

4. BROWN – Door Trigger Input (-)
The BROWN wire connects to the vehicle's door trigger wire. This wire will detect Ground (-) input.
Verification: The vehicle door trigger wire registers Ground (-) when a door is opened and opposite when closed.
Note: If the door registers as 12-Volt (+) when the door is opened, use the PURPLE (Pin 3) input.

7. YELLOW – Ignition Input (+)
The YELLOW wire connects to the vehicle's primary ignition wire. This wire will be used for system programming and override.
Verification: This ignition wire registers 12-Volt (+) when the key is in the accessory, ignition, and start positions.
Note: Before making this connection, remove all module fuses until the system is completely connected.

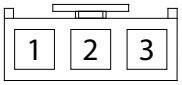
6. BLACK – Ground Input (-)
The BLACK wire connects to a reliable vehicle ground (-) source to power the system.
Verification: The vehicle ground (-) source wire registers ground (-) at all times.
Note: Before making this connection, remove all module fuses until the system is completely connected.

3. GREEN/LIGHT BLUE – Ch. 4 Aux. Output (-)
The GREEN/LIGHT BLUE wire supplies Ground (-) when activated from the remote control.

Detailed Descriptions: Wire Harness Colors and Functions

Main Power Connector (3-pin connector) See page 11 for the full system diagram.

These wires are listed in order of their placement in the harness connector.



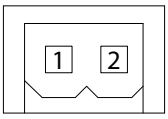
1. RED – 12-Volt Input (+)
The RED wire connects to the vehicle's primary 12-Volt (+) wire to power the system.
Verification: The power wire registers 12-Volt (+) at all times.
Note: Before making this connection, remove all module fuses until the system is completely connected.

2. WHITE – Parking Light Output (+)
The WHITE wire supplies 12-Volt (+) to the vehicle's parking light wire.
Verification: The vehicle parking light wire registers 12-Volt (+) when the parking lights are turned on.
Note: If the vehicle has negative (-) parking lights and additional relay is required.

3. WHITE/BLACK – Siren Output (+)
The WHITE/BLACK wire supplies 12-Volt (+) to power the siren. After mounting the siren, connect its BLACK wire to a reliable ground source, and connect the WHITE/BLACK wire to the siren's RED wire.

Door Lock Connector (2-pin connector) See page 11 for the full system diagram.

These wires are listed in order of their placement in the harness connector.



1. RED – Door Lock (-)
The RED wire supplies Ground (-) when the Lock function is activated from the remote control or system.
Verification: The vehicle lock wire registers 12-Volts (+) or Ground (-) when the Lock button is activated.
Note: Additional parts may be required. See Page 7 for common door lock wire diagrams.

2. GREEN – Door Unlock (-)
The GREEN wire supplies Ground (-) when the Unlock function is activated from the remote control or system.
Verification: The vehicle lock wire registers 12-Volt (+) or Ground (-) when the Unlock button is activated.
Note: Additional parts may be required. See Page 7 for common door lock wire diagrams.

Detailed Descriptions: External Components & Operation

Shock Sensor

This system includes an on-board shock sensor. The main module should be securely mounted to a vehicle surface or sturdy wire harness. Testing takes place after all connections are made and the system is powered up. An external shock sensor can be added for additional protection. The external shock sensor will connect to the 4-Pin shock sensor port on the module.

Adjusting the Shock Sensor

1. Arm the system, wait 5-10 seconds, then with an open palm carefully apply impact to areas of the vehicle to test the shock sensor's sensitivity.
2. To adjust, turn the adjustment knob on the shock sensor counter-clockwise for less sensitivity; clockwise for more sensitivity.
3. If the proper sensitivity still cannot be achieved, re-locate the shock sensor.

LED / Valet Programming Port

The LED / Valet Programming port is used to for Valet Override.

1. Find a suitable location to mount the supplied LED / Valet Programming button. Locate a clear spot on the vehicle's dashboard that will be seen from the outside of the vehicle.
2. Drill a 5/16 inch hole and mount the LED / Valet button. Route the wires to module and plug into proper location.

Valet Alarm Override

The Valet Override procedure will disable the alarm when the remote is not available or has become inoperative. If the vehicle door is opened without disarming, the alarm will sound and the vehicle will not start when attempting to start with the key. To disable the alarm:

1. Turn the vehicle ignition to ON.
2. Within five (5) seconds, press and hold the valet button on for one (1) second.

The alarm will silence and the vehicle will now start normally with the key.

Detailed Descriptions: External Components & Operation

Programming Remote Controls

Remote programming is done using the valet button. This system will Auto Program all functions of the remote with one (1) button press.

To Auto Program Remote Controls:

1. **Turn the vehicle's ignition to the ON position**
2. **Press and hold the valet button for five (5) seconds. The system will beep three (3) times.**
3. **Press the Lock button on each remote control.**

Note: The system will delete any previously programmed remote control during the above procedure. All remote controls must be programmed at one time.

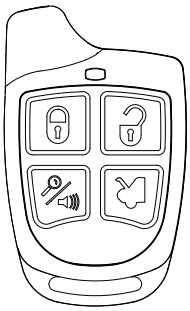
To delete a remote control:

This system will store a **maximum of three (3) remote controls** in the memory. Additional programmed remote controls will delete any previously programmed remote control.

Remote Control Operation

This system includes two (2) 1-Way four (4) button remotes. The matrix below describes all remote features and functions. See the Owners Guide for complete remote operation.

Four Button Remotes



	Press 1X	Ignition OFF	Lock & Arm
		Armed	Car Find
		Triggered	Alarm Silence Without Disarm
Then	Press 1X	Ignition OFF	Arm, Bypass Shock Trigger
Then	Press 1X	Ignition OFF	Arm, Bypass Shock & Door Trigger
	Press 1X	Armed	Disarm & Unlock
		Triggered	Alarm Silence Without Disarm
+	Press 1X	Anytime	AUX CH. 4 Output
	Hold 2sec	Ignition OFF	Remote Panic
		Ignition ON	Anti-Hijack Activation
Then	Press 1X	Ignition OFF	Silent Arming
Then	Press 1X	Ignition OFF	Silent Disarming
	Hold 3sec	Ignition OFF	Trunk Release
Then	Press 1X	Ignition OFF	Valet Mode
Then	Hold 2sec	Ignition OFF	Valet Mode

Detailed Descriptions: Setup Options

Security Control Jumper Settings

Jumper Settings			
	J1	Installed	Ignition Locking ON
		Removed	Ignition Locking OFF
	J2	Installed	Anti-Hijacking Mode 1
		Removed	Anti-Hijacking Mode 2
	J3	Installed	Anti-Hijacking ON
		Removed	Anti-Hijacking OFF
	J4	Installed	500ms Lock / Unlock
		Removed	500ms Lock / DBL Unlock
	J5	Installed	Passive Arming
		Removed	Active Arming

Jumper 1: **Ignition-Activated Lock / Unlock**

Function: Set the system to automatically lock / unlock when the Ignition is turned ON / OFF.
Setting Choices:

- Installed - Doors Lock four (4) seconds after ignition ON; Unlock after ignition OFF.
- Removed - Doors do not lock / unlock with ignition ON / OFF.

Jumper 2: **Anti-Hijack Activation**

Function: Set the system's Anti-Hijack activation function.
Setting Choices:

- Installed - Mode 1; Anti-Hijack will activate with ignition ON and door open.
- Removed - Mode 2; Anti-Hijack will activate with ignition ON only.

Jumper 3: **Anti-Hijack Mode ON/OFF**

Function: Set the system's Anti-Hijack Mode.
Setting Choices:

- Installed - Anti-Hijack Mode ON.
- Removed - Anti Hijack Mode OFF.

Jumper 4: **Door Lock / Unlock Pulse**

Function: Set the system's door lock / unlock pulse.
Setting Choices:

- Installed - System will pulse lock and unlock wires for 500ms.
- Removed - System will pulse the lock wire for 500ms; Unlock wire two (2) times, 500ms each.

Jumper 5: **Automatic Arming**

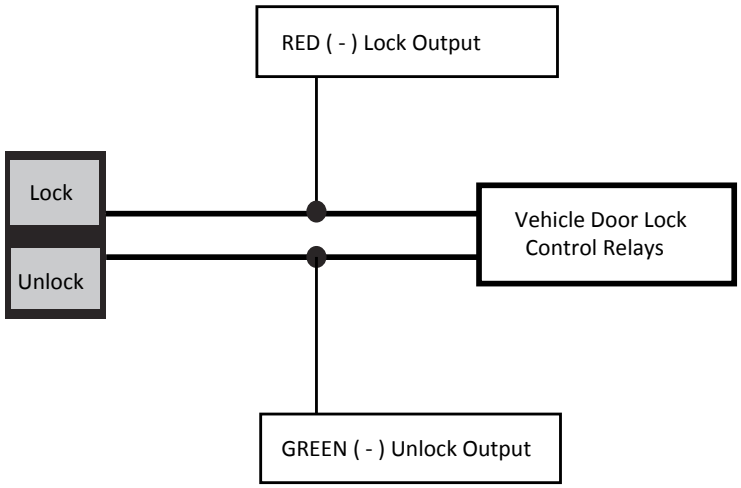
Function: Set the system to automatically arm and lock the vehicle.
Setting Choices:

- Installed - System will automatically arm and lock after thirty (30) seconds.
- Removed - System will only arm when using the remote control.

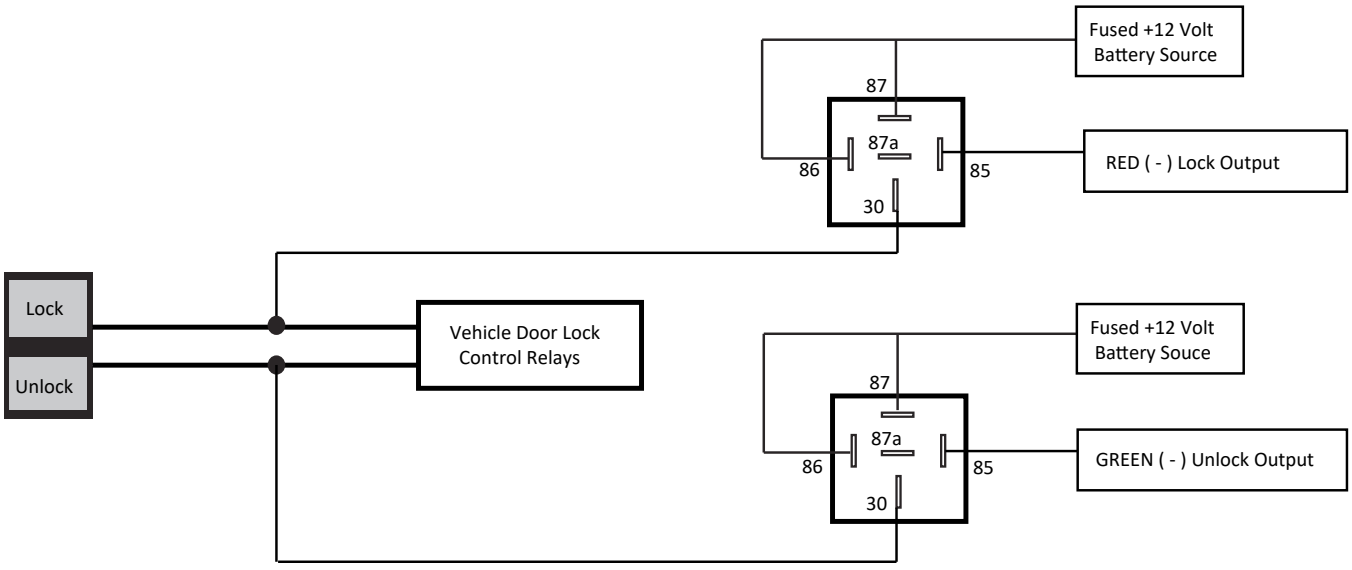
Quick Reference: Wiring Diagrams

Door Lock Connections

Negative-Trigger Door Locks
Verification: The vehicle wires register Ground when the Lock and Unlock switches are activated.



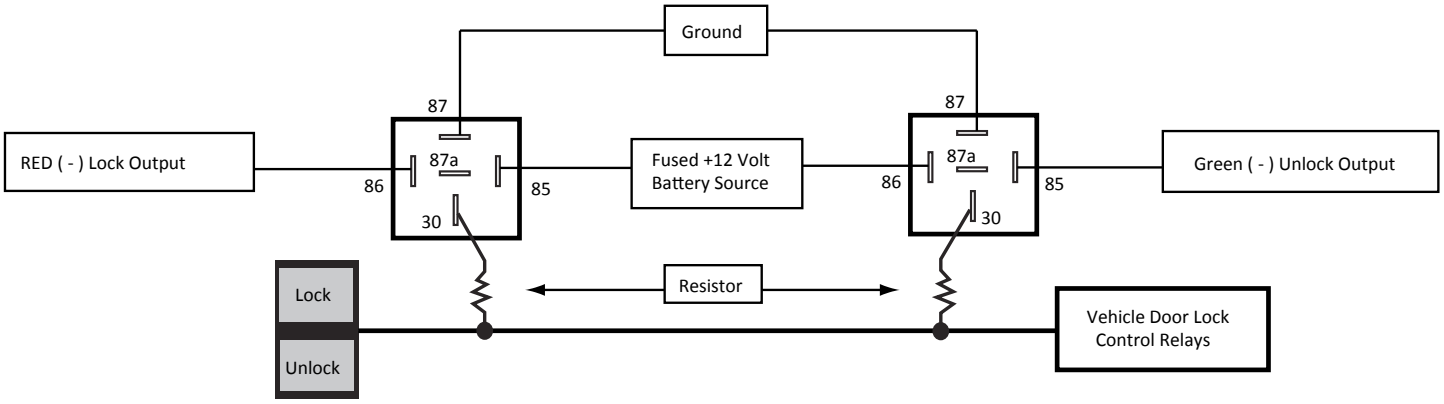
Positive-Trigger Door Locks
Verification: The vehicle wires register 12V+ when the Lock and Unlock switches are activated.



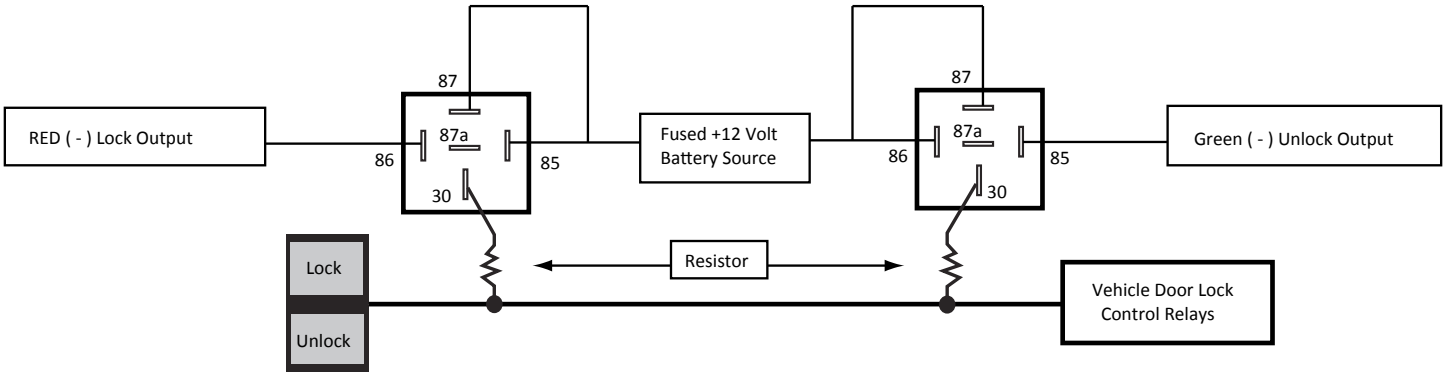
Quick Reference: Wiring Diagrams

Door Lock Connections

Single-Wire Negative Multiplex Door Locks (Relays required)
Verification: The vehicle wire registers variable Ground values when the Lock and Unlock switches are activated. Please consult the vehicle-specific wire and location chart on the Voxx University for resistor values.



Single-Wire Positive Multiplex Door Locks (Relays required)
Verification: The vehicle wire registers variable 12V+ values when the Lock and Unlock switches are activated. Please consult the vehicle-specific wire and location chart Voxx University for resistor values.

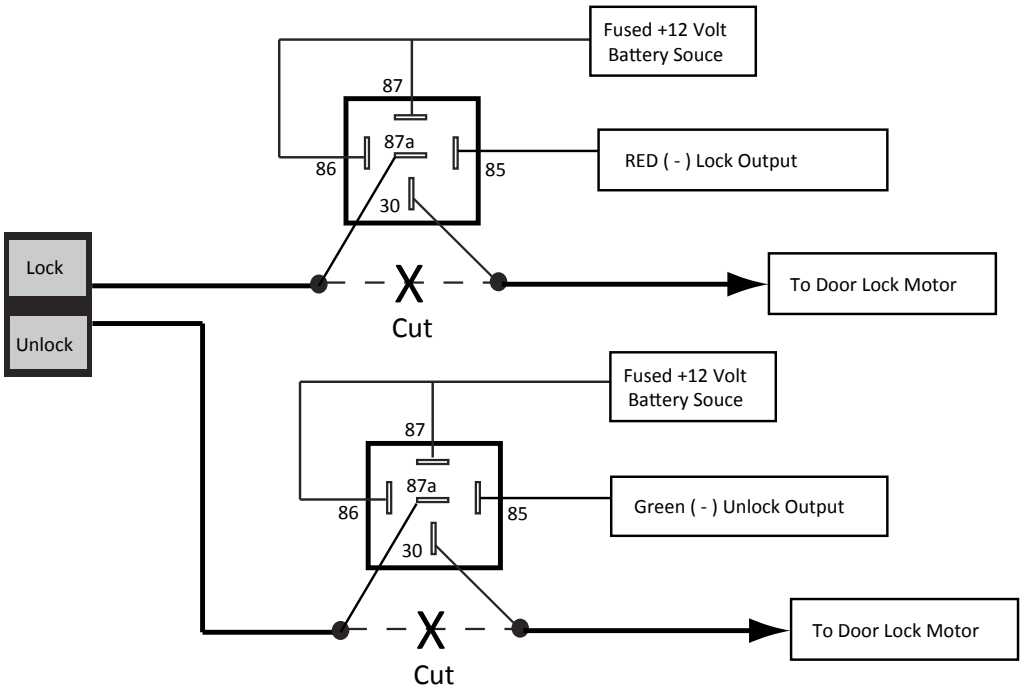


Quick Reference: Wiring Diagrams

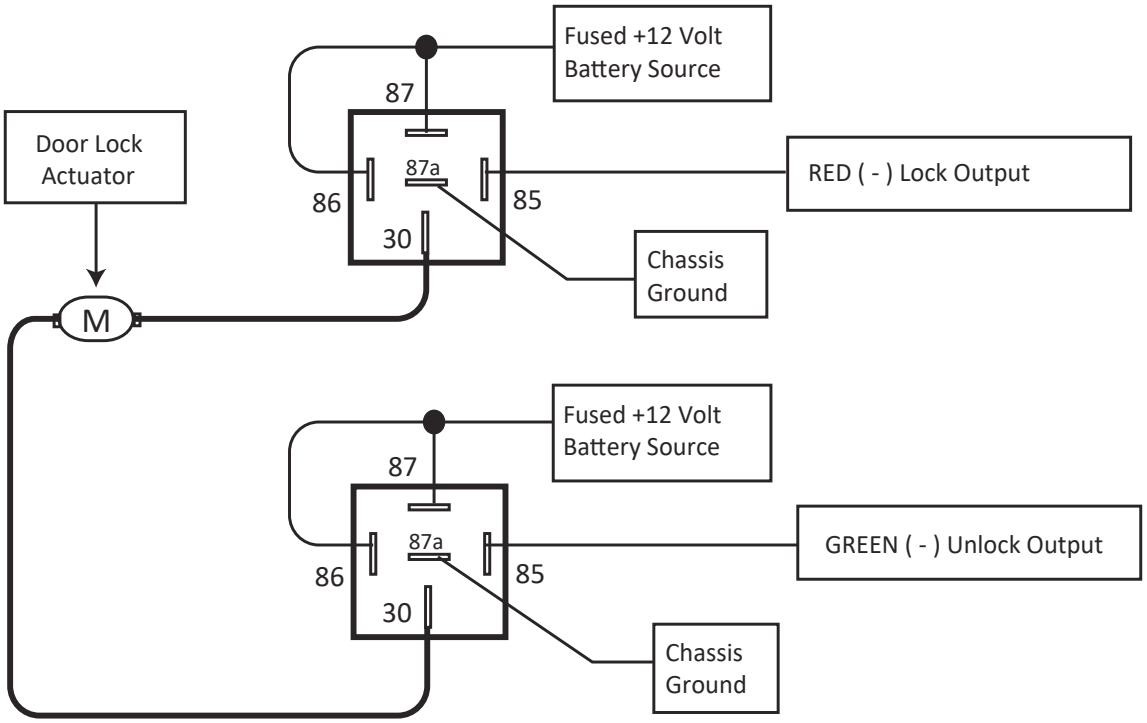
Door Lock Connections

Reverse-Polarity Door Locks (Relays required)

Verification: The vehicle wires rest at Ground and register 12V+ when the Lock and Unlock switches are activated.



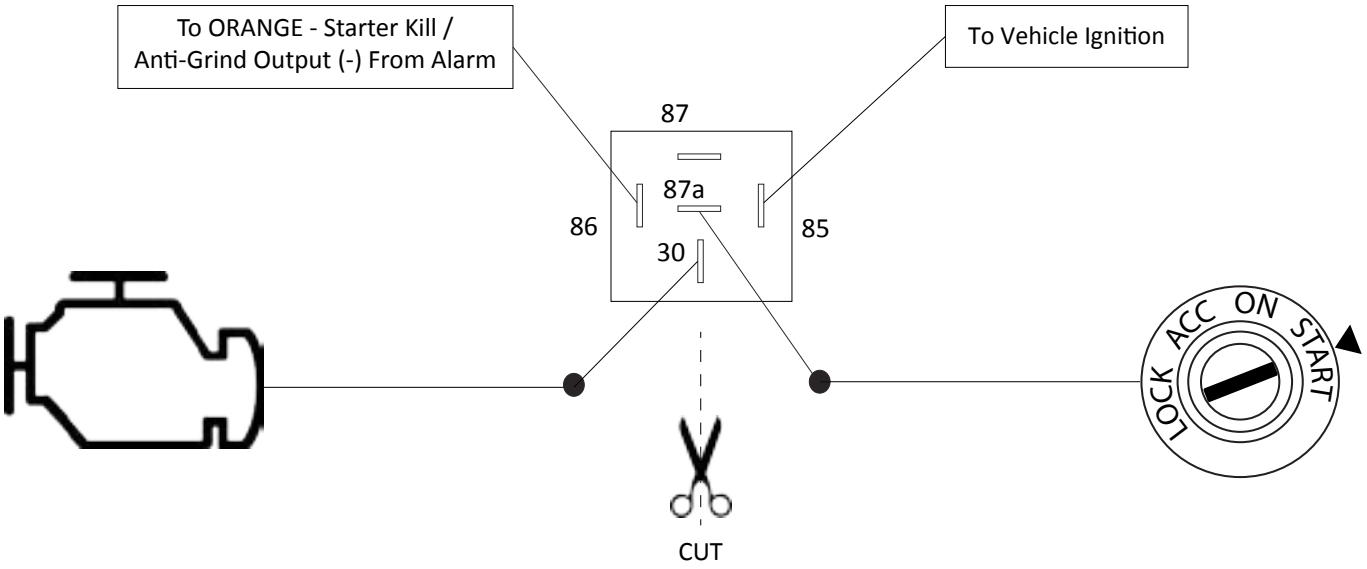
Aftermarket Actuators (Relays and door lock actuators required)



Quick Reference: Wiring Diagrams

Starter Kill / Anti-Grind Relay Connections

Included Starter Kill / Anti-Grind Relay



Quick Reference: Wiring Diagrams