

# StarDrive Keyless Ignition System Installation Instructions

## INTRODUCTION:

**Congratulations** on your choice of the StarDrive™ keyless ignition system. This booklet contains the information necessary for installing your keyless ignition system. If any questions arise, contact your installation dealer.

## DISCLAIMER:

This installation book is designed for the installer or individual with an existing understanding of automotive electrical systems, along with the ability to test and connect wires for proper operation. To ease installation, we suggest that you

**Read this Manual** before beginning your installation. This book is provided as a GENERAL GUIDELINE and the information contained herein may differ from your vehicle. StarDrive and its' vendors shall not be liable for any accident resulting from the use of this product. This system is designed to be professionally installed into a vehicle in which all systems and associated components are in perfect working condition.

**Web Site:** [www.auto-hub.com](http://www.auto-hub.com)

**E-mail:** [info@auto-hub.com](mailto:info@auto-hub.com)

This device complies with FCC Rules part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may be received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modification could void the user's authority to use the equipment.

## **PRE-INSTALLATION CONSIDERATIONS**

**BEFORE BEGINNING**, check all vehicle manufacturer cautions and warnings regarding electrical service (AIR BAGS, ABS BRAKES, ENGINE / BODY COMPUTER, AND BATTERY).

**PLAN OUT YOUR INSTALLATION** and determine most suitable locations for all components to be placed. These components include: the module itself, possible relays and antennas. Allow enough wire to create a service loop with strain relief, should servicing be required. This will also allow easier access and mounting.

**DAMAGE** to the StarDrive unit resulting from incorrect installation or failure to follow guidelines stated in this book will not be covered under warranty and will be subject to repair or replacement charges.

**USE A VOLT OHM METER** to test and locate all connections. Test Lights can damage a vehicle's computer systems.

**ADDITIONAL PARTS**, which are not included with this unit, may be needed for your particular vehicle. These items may include extra relays or Anti-Theft System Bypass modules.

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## **INSTALLATION CAUTIONS & WARNINGS**

**DO NOT** extend the Keyless ignition large gauge wire harness length. Mount the module so that main harness reaches all ignition switch wiring. Extending these wires could result in poor or improper performance.

**DO NOT** route any wiring that may become entangled with brake, gas pedals, steering column or any other moving parts in the vehicle.

**DO NOT** exceed the rated 30 amp's total on the Keyless ignition module. Failure to observe this warning will result in damage to the unit not covered under warranty.

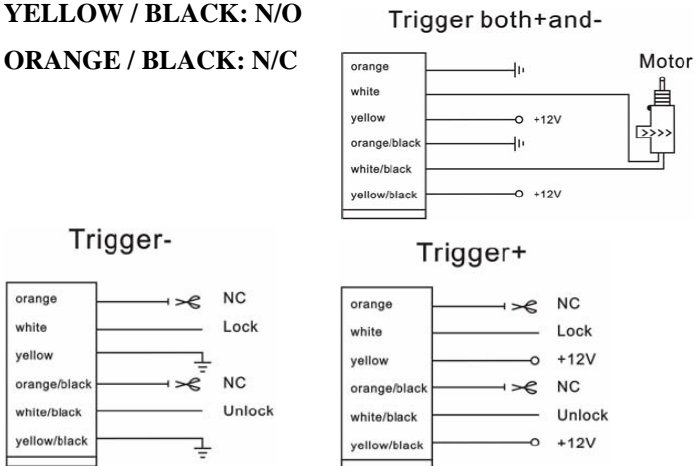
## WIRING – RFID SECURITY

### Lock Relay

- 1: **WHITE: COMMON**
- 2: **YELLOW: N/O**
- 3: **ORANGE : N/C**

### Un-Lock Relay

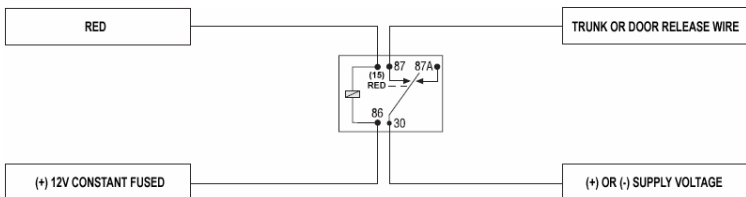
- 4: **WHITE / BLACK: COMMON**
- 5: **YELLOW / BLACK: N/O**
- 6: **ORANGE / BLACK: N/C**



### 7: **RED: AUX 2 OUTPUT -**

#### **(-) 200 MA OUTPUT TRUNK SOLENOID, DOOR SOLENOID, OR DRIVER PRIORITY**

This is used to operate Trunk solenoid, Door solenoid or other relay functions.



## STARDRIVE INSTALLATION INSTRUCTIONS

### 8: **PINK: (+) FOR SIREN OUTPUT - TO RED ON SIREN**

Connect this to the red wire of the siren. Connect the black wire of the siren.

### 9: **RED: (+) CONSTANT BATTERY – NON-SWITCHED TO (-) CHASSIS GROUND**

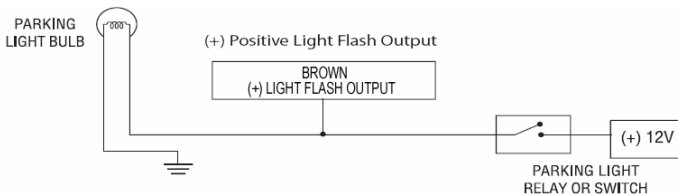
Before connecting this wire, remove the supplied fuse. Connect to the battery positive terminal or the constant 12V supply to the ignition switch.

**Note:** Always use a fuse within 12 inches of the point you obtain (+)12V. This fuse protects the module.

### 10: **YELLOW: RFID SECURITY COMMUNICATION - TO YELLOW FROM RFID**

### 11: **BROWN: (+) LIGHT FLASH OUTPUT - ONBOARD RELAY - TO PARKING LIGHTS**

This wire should be connected to the parking light wire in the vehicle. See Setting the light flash polarity section of this guide for polarity settings.



### 12: **GRAY: WINDOW CONVENIENCE 1 - (-) 200 MA OUTPUT**

Gives a short (-) pulse when armed. Use with DEI 530t window module or similar device.

### 13: **VIOLET: WINDOW CONVENIENCE 2 - (-) 200 MA OUTPUT**

Gives a short (-) pulse when armed. Use with DEI 530t window module or similar device.

### 14: **ORANGE : (+) BRAKE INPUT - TO (+) WHEN BREAK IS PUSHED**

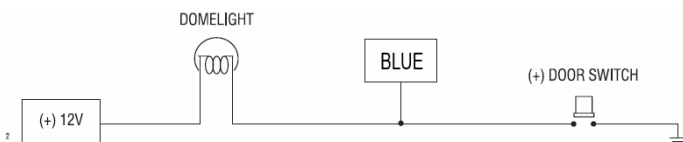
This wire **MUST** be connected to the vehicle's brake light wire. The brake circuit needs to work even when the ignition is off. Full time power.

## STARDRIVE INSTALLATION INSTRUCTIONS

### 15: WHITE: RFID SECURITY COMMUNICATION - TO WHITE FROM RFID

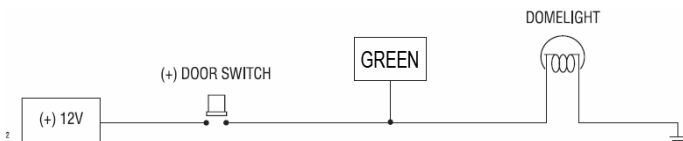
### 16: BLUE: (-) DOOR TRIGGER INPUT - TO (-) WHEN DOOR IS OPEN

Most vehicles use negative door trigger circuits. Connect the green wire to a wire which shows ground when any door is opened. In vehicles with factory delays on the dome light circuit, there is usually a wire that is unaffected by the delay circuitry.



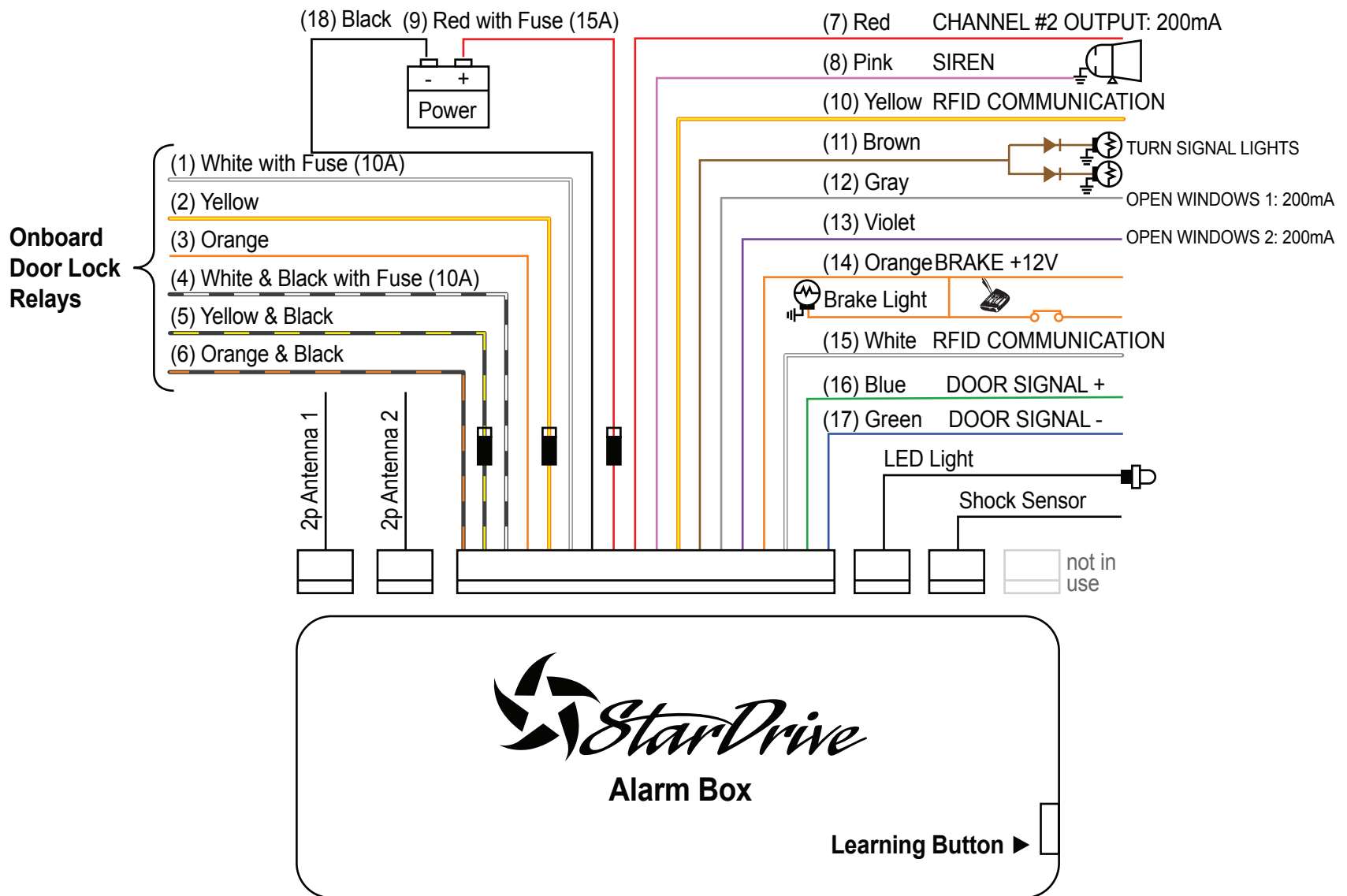
### 17: GREEN: (+) DOOR TRIGGER INPUT - TO (+) WHEN DOOR IS OPEN

This wire is used in vehicles that have a positive (+) switched dome light circuit. Connect the violet wire to a wire that shows (+)12V when any door is opened, and ground when the door is closed.



### 18: BLACK: (-) CHASSIS GROUND

Connect to chassis metal of the vehicle. An existing bolt or screw may provide an adequate ground, or drill a small hole, scrape away paint and attach using a sheet metal screw and star washer.



## **WIRING – HIGH CURRENT**

**NOTE:** Heavy duty/High Current Ignition circuits greater than 30 AMPS. Industrial vehicles, dual AC, etc. require high-current relays. **DO NOT** use the outputs of the StarDrive for High-Current systems or you will risk damaging the unit and creating a hazardous condition! Use extra relays for circuits up to 70 amps.

**1: RED: 12V MAIN IGNITION POWER:**

Connect to 12V Constant Power.

**2: YELLOW: 12V ACCESSORY OUTPUT:**

Connect to circuit in the vehicle that provides Accessory Power for systems such as RADIO and POWER WINDOWS. Typically, this wire turns ON with the first position of the key, **DROPS OUT WHEN CRANKING**, then returns as the engine starts and runs.

**3: BLACK: 12V IGNITION OUTPUT:**

Connect to circuit in the vehicle that provides true Ignition Power for systems such as Spark and Fuel. Typically, this wire turns ON with the second position of the key, **STAYS ON WHEN CRANKING**, and continues ON as the vehicle runs.

**4: VIOLET: 12V STARTER OUTPUT:**

Connect to the STARTER.

## **WIRING (H1)**

### **5: RED: STARDRIVE POWER:**

Connect to 12V Constant Power.

### **6: BLACK: STARDRIVE GROUND**

Connect to chassis metal of the vehicle. An existing bolt or screw may provide an adequate ground, or drill a small hole, scrape away paint and attach using a sheet metal screw and star washer. This wire must be connected to a proper ground or undesirable and inconsistent operation will occur. Do not use Factory ground locations.

### **7: BROWN: ILLUMINATION (-):**

Push button illumination

### **8: BLACK: ILLUMINATION (+):**

Push button illumination

### **9: BLUE: Door Trigger (-) Input**

Connect to the wire(s) that only shows (-) ground when any door is open.

### **10: GREEN: Door Trigger (+) Input**

Connect to the wire(s) that only shows (+) positive 12 V DC when any door is open.

### **11: ORANGE: (12V) BRAKE SAFTEY**

Connect the wire to the side of brake pedal switch that shows 12 volts ONLY when pedal is depressed.

**Note:** May need to alter the brake light circuit to have constant power.

### **12: YELLOW: COMMUNICATION TRANSMIT**

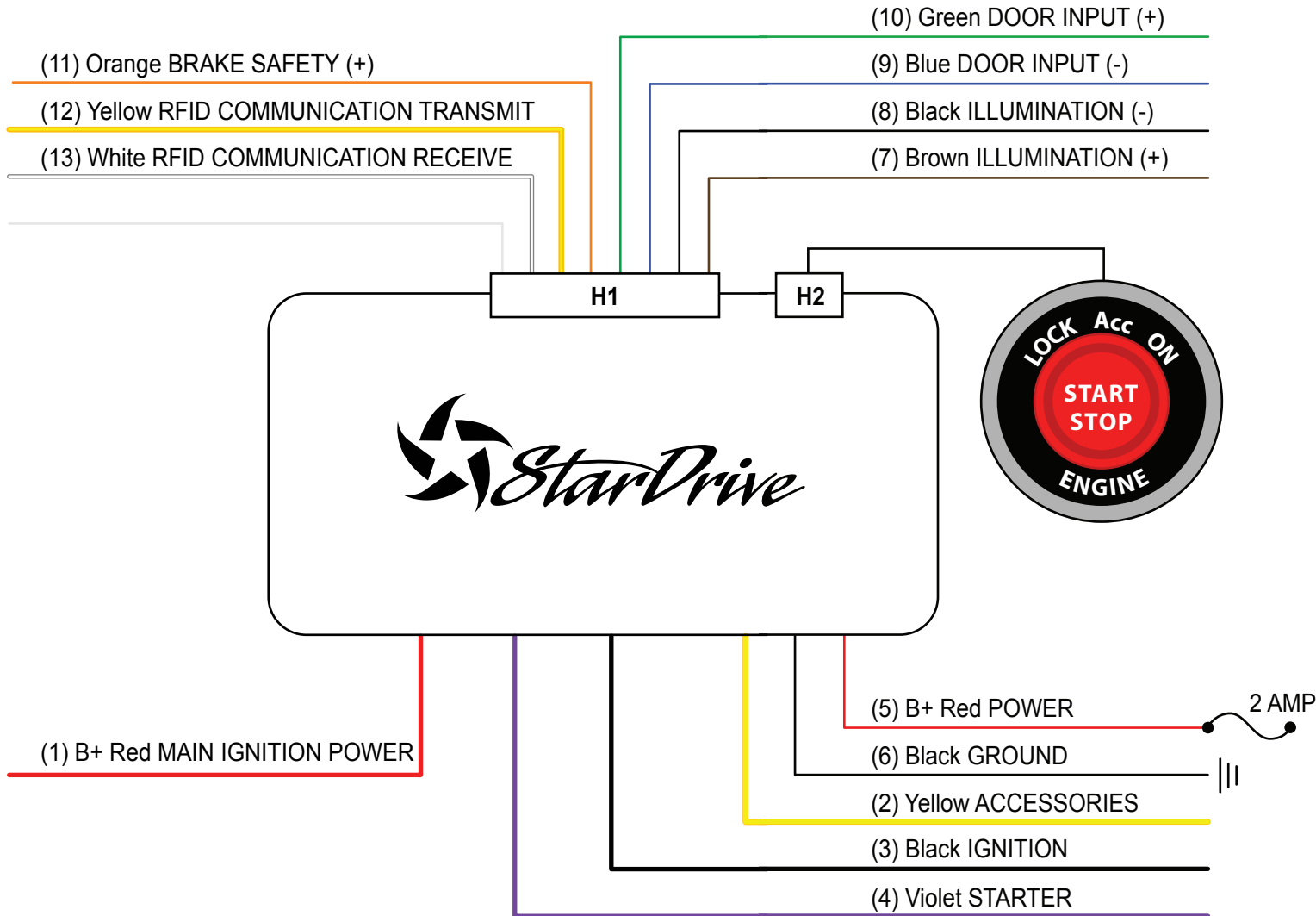
For security system.

### **13: WHITE: COMMUNICATION RECEIVE**

For security system.

**(H2)**

**PUSH BUTTON CONNECTION**



### **Antenna Installation:**

The antenna will not transmit through metal.

We suggest you try several temporary locations to get the best range before permanent installation.

**SUGGESTED LOCATIONS:** Front window, Quarter window, Headliner, Seat back, Headrest, or Outside mirror, but only if the housing is plastic.

**Note:** Antenna wires can be lengthened if necessary to complete installation.

### **StarDrive RFID:**

When not running, the StarDrive's RFID is constantly searching for the key FOB by sending out a continuous signal which has slightly more draw than a standard alarm system.

If you are not going to be driving for more than two weeks we suggest disconnecting the battery, or keeping it on a trickle style charger.

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### **OTHER CONSIDERATIONS:**

**Key FOB:** The battery normally lasts one (1) year under normal operation. Do not leave your key FOB in proximity of car for extended time, it will substantially shorten the key FOB battery life.

Use the On / Off switch for storage, to conserve battery life, and to stop nuisance cycling of the security system when you are within proximity of your car for an extended amount of time, i.e. car shows, detailing, repair, etc.

The key FOB battery is #CR2032 and is readily available.

**NOTE:** If you are not going to be driving for a period of 2 weeks or more, it is suggested that you disconnect the car battery or keep it charged with a battery tender.

**Silent Operation:** Push and hold the lock and unlock buttons on the key FOB simultaneously for 3 seconds. Repeat to return to audible operation.