



StarDrive Keyless Ignition System Installation Instructions

Congratulations on your choice of StarDrive® for your keyless ignition system. This booklet contains the information necessary for installing your keyless ignition system. If any questions arise prior to installation, you may contact StarDrive. For questions arising after installation, contact your installation expert.

DISCLAIMER:

This installation manual is designed for the installation expert, or an individual with an understanding of automotive electrical systems, along with the ability to test and connect wires for proper operation. To ease installation, Read this Manual before beginning your installation. This manual is provided as a GENERAL GUIDELINE and the information contained herein may differ for your vehicle.

StarDrive and it's vendors shall not be held 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.

Website: www.myStarDrive.com
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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 the most suitable location for each component 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 for easier access and mounting.

DAMAGE to the StarDrive unit resulting from incorrect installation, or failure to follow guidelines stated in this guide, will not be covered under warranty and are 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.

INSTALLATION CAUTIONS & WARNINGS

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

DO NOT route any wiring through an area that it may become entangled with brake or gas pedals, steering column, or any other moving parts of the vehicle.

DO NOT exceed the rated 30 Amps total on the keyless ignition module. Failure to observe this warning will result in damage to the unit and is not covered under warranty.

WIRING – RFID SECURITY

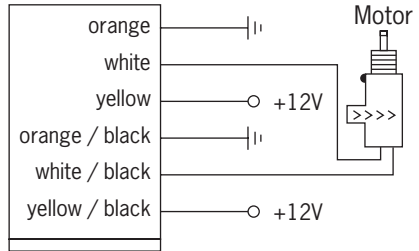
Lock Relay

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

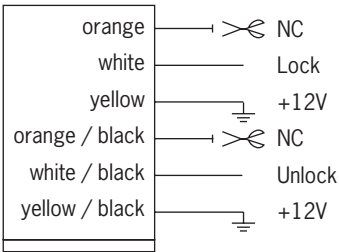
Unlock Relay

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

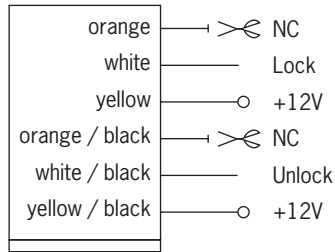
Trigger both + and -



Trigger -



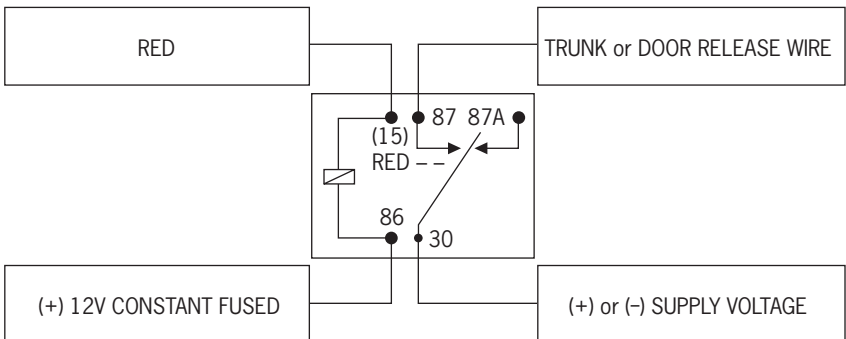
Trigger +



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.



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

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

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

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

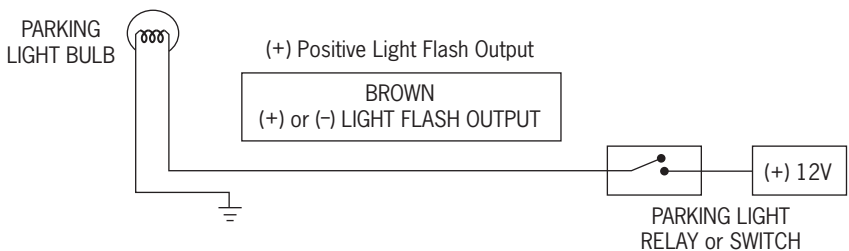
NOTE: Always use a fuse within 12 inches of the point you obtain (+)12V. This fuse protects the module.

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

NOTE: There are two yellow wires. *This wire is small gauge.*

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

Connect this wire to the parking light wire in the vehicle.



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 BRAKE PUSHED

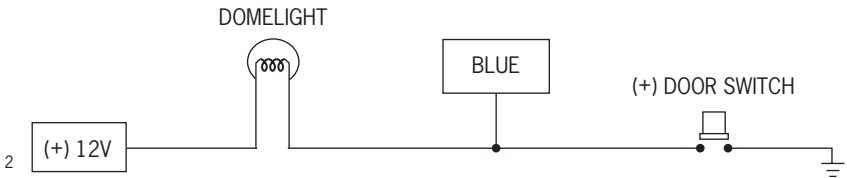
This wire **MUST** be connected to the vehicle's brake light wire. The brake circuit needs to work even when the ignition is off. It needs full time power.

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

NOTE: There are two white wires. *This wire is small gauge.*

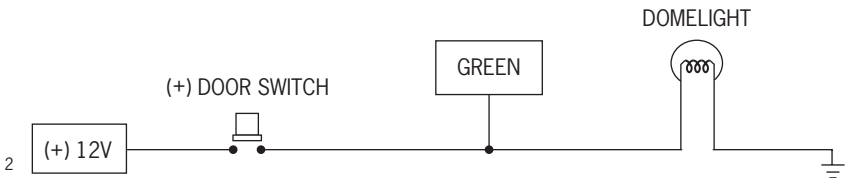
16: BLUE: (-) DOOR TRIGGER INPUT - TO (-) WHEN DOOR IS OPEN

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



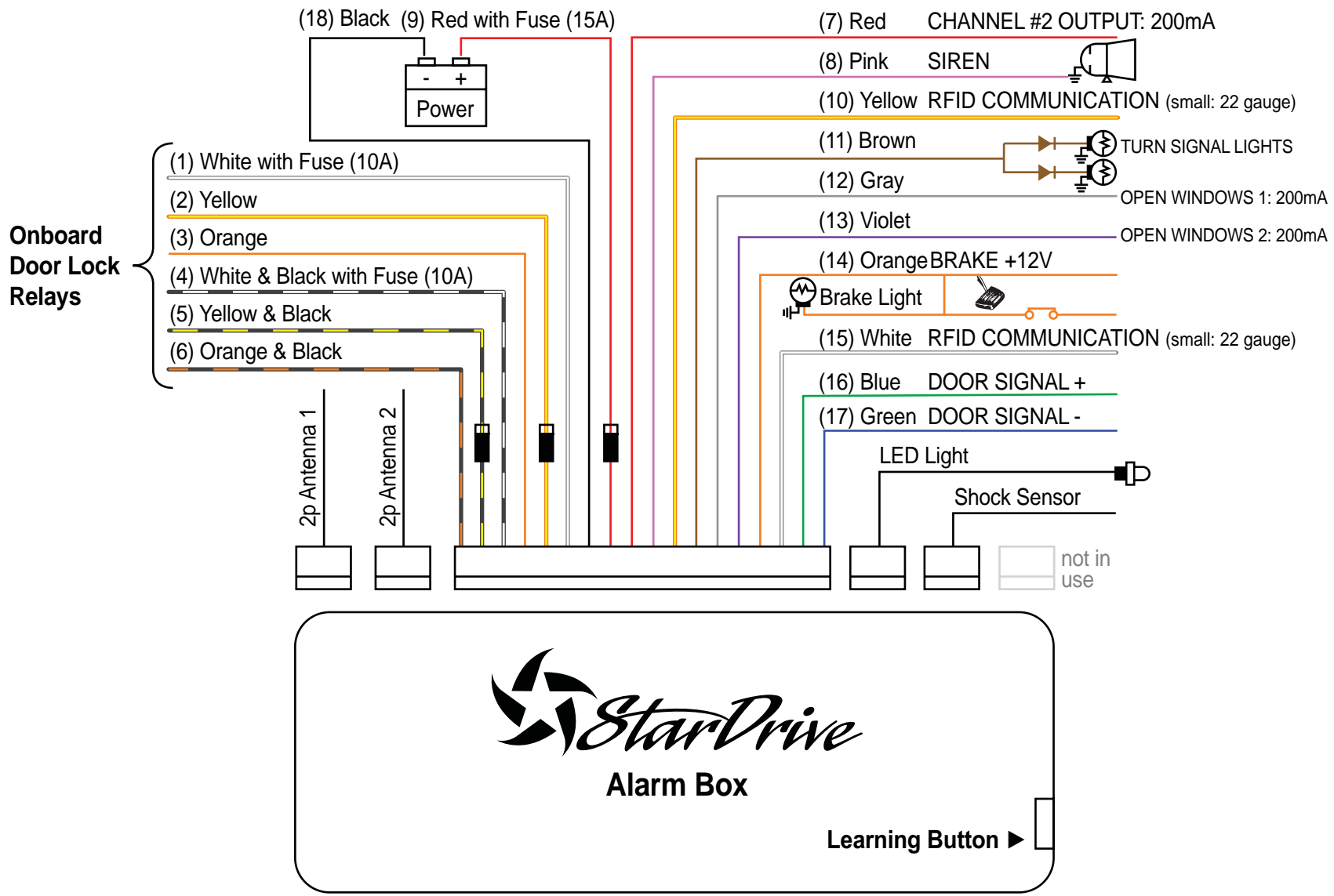
17: GREEN: (+) DOOR TRIGGER INPUT - TO (+) WHEN DOOR IS OPEN

This wire is used in vehicles that have a positive (+) switched dome light circuit. Connect this 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: DO NOT use the outputs of the StarDrive for high current systems or you will damage the unit and create a hazardous condition! High current / heavy duty ignition circuits greater than 30 Amps, industrial vehicles, dual AC, etc. require high current relays. 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)

6: **BLACK: STARDRIVE GROUND**

DO NOT use factory ground locations. Connect to the chassis metal of the vehicle. An existing bolt or screw may provide an adequate ground. If not, drill a small hole, scrape away the 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.

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

Push button illumination.

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

Push button illumination.

9: **BLUE: DOOR TRIGGER (-) Input:**

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

10: **GREEN: DOOR TRIGGER (+) Input:**

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

11: **ORANGE: (12V) BRAKE SAFETY:**

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

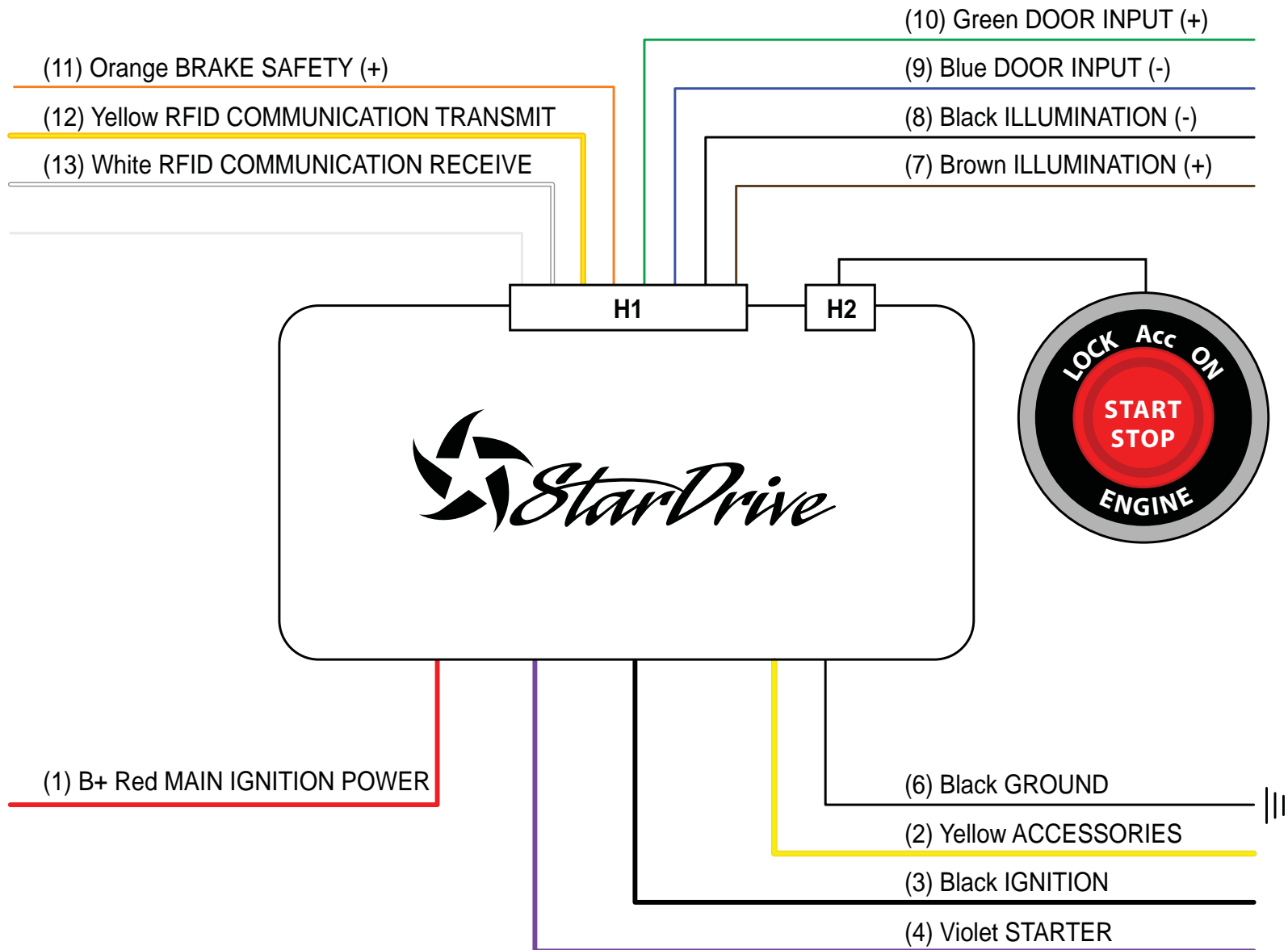
NOTE: You may need to alter the brake light circuit to have constant power.

12: **YELLOW: COMMUNICATION TRANSMIT:**

For security system.

13: **WHITE: COMMUNICATION RECEIVE:**

For security system.



ANTENNA INSTALLATION:

IMPORTANT: The antenna will not transmit through metal.

Try several temporary locations to determine 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 to complete installation.

KEY FOB:

When the vehicle is 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.

NOTE: If you are not going to be driving for more than two weeks it is suggested that the car battery be disconnected. Alternatively, it could be put on a trickle style charger.

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

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

CAR SHOW USE: Use the On / Off switch located on the side of the FOB 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. We also suggest turning the FOB off if your vehicle is put into storage, as this will conserve FOB battery life.

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

Trunk Release: Push and hold the lock and unlock buttons on the key FOB simultaneously for 1 second.

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