

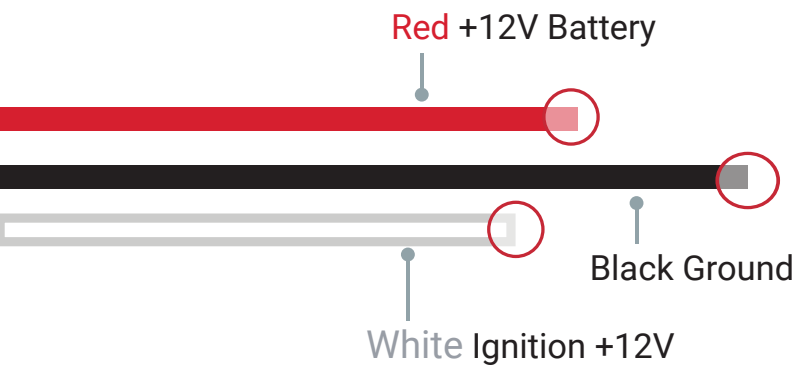


# TTU-2830™

## Installation Guide



# Installing the Power/Serial Cable



Note: The ignition wire must be connected to the vehicle's ignition, NOT THE BATTERY. Unused wires must be properly insulated to prevent shorts.

 = White Ignition +12V

## Step 1: Red Battery Wire

- Connect the Red wire to a 12V - 24V power source. Make sure the positive voltage is between 7 and 32 volts DC.

## Step 2: Black Ground Wire

- Connect the Black ground wire to the vehicle chassis.

## Step 3: White Ignition Wire

- Connect the White ignition wire to a 12V power source that draws 0V when the vehicle is shut off.

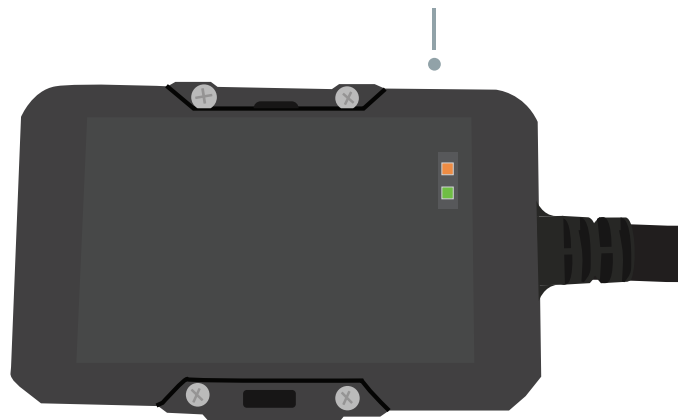
Once powered up, the LED indicators (diagram page 3) will show a solid Orange light for a cell signal and a solid Green for a GPS signal. When the light is blinking, it is searching for a signal. It may take 5 minutes to get a GPS lock. If you are unable to retrieve a signal after waiting a minute or two, reposition the unit and try again.

**Note:** It takes 20-60 seconds before the Locator can detect that the SIM card is not properly installed. Alternatively, Call (877) 477 2922 for more info.

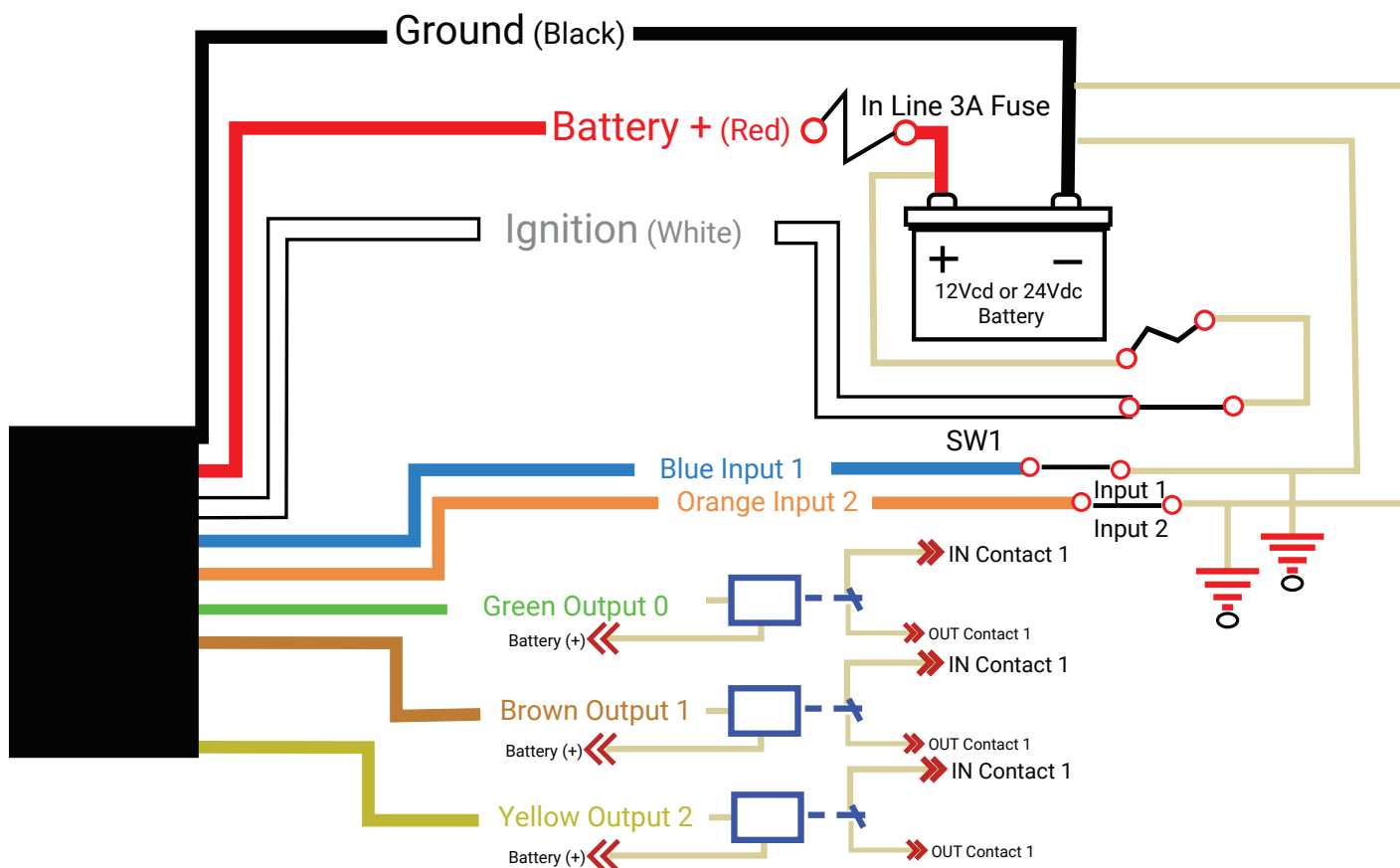
# LED Diagram

LED	Meaning
Off	Modem is off
Slow blinking	Comm on - searching
Fast blinking	Network available
Alternates solid to fast blinking every 1 second	Registered but no inbound acknowledgement
Solid	Received inbound acknowledgement

Testing Indicators

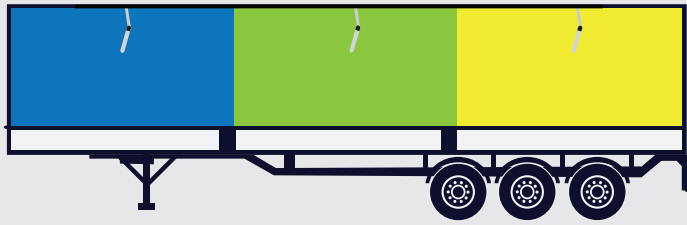


# Installing the telemetry



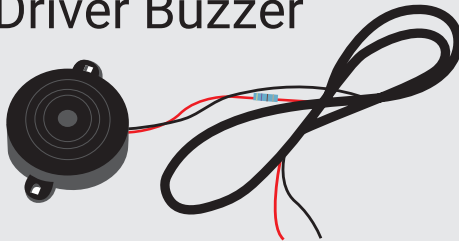
# Accessories for the TTU-2830

## Temperature Sensors



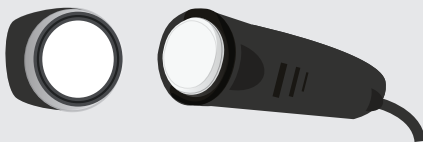
Monitor up to three separate temperature zones in a trailer. Alerts can be configured based on high/low temperature thresholds.

## Driver Buzzer



The buzzer delivers audible alerts to drivers. It can be used with Driver ID login and logout reminders or driver behavior alerts.

## Driver ID Kit

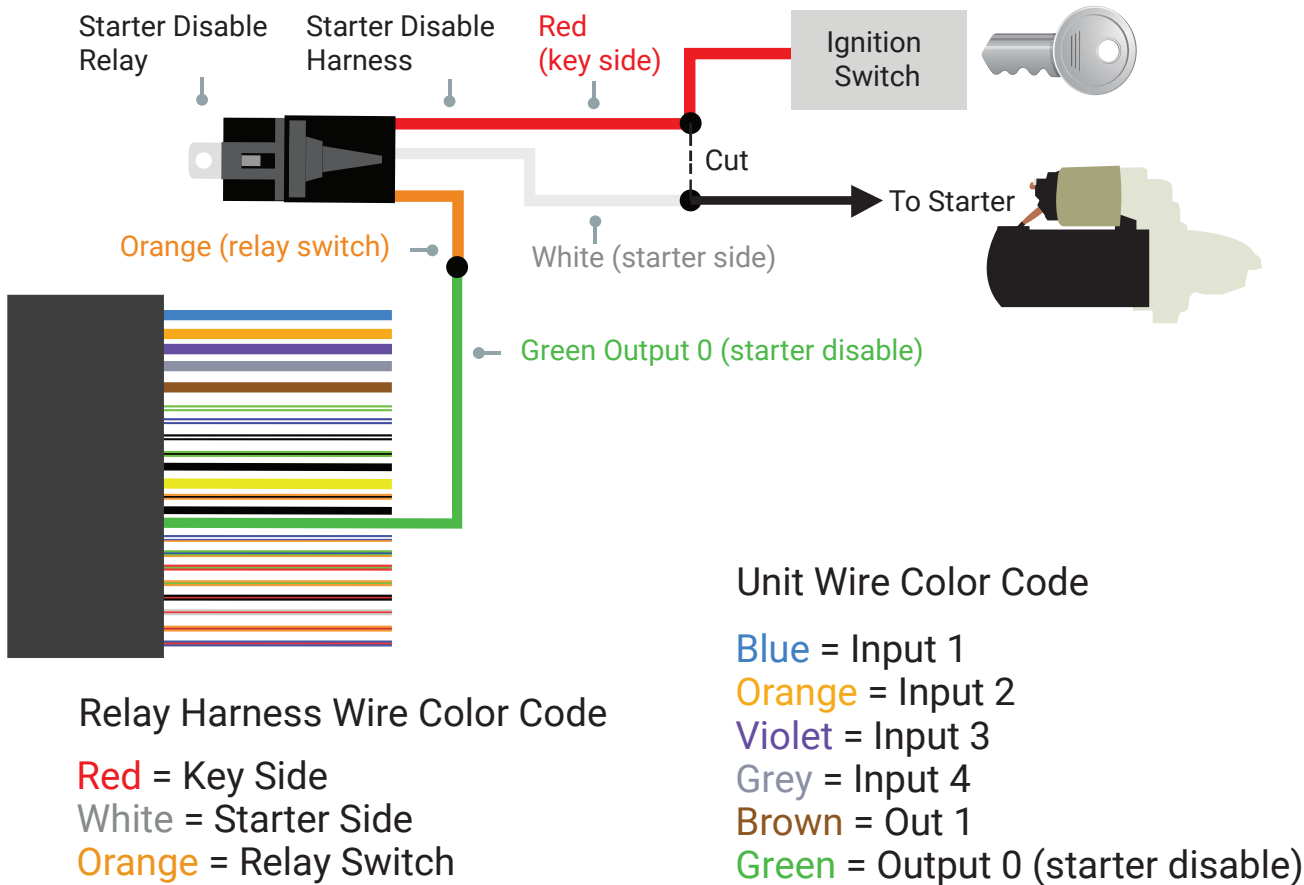


The TTU 2830 works in conjunction with a key fob coded with a unique number. The system checks the database and then assigns the driver to the vehicle.

# Optional Starter Disable installation

Starter Disable goes into effect the next time someone attempts to start the vehicle after successful installation. It remains in effect until the disable command is sent.

Note: This does not shut off a vehicle while the engine is running.

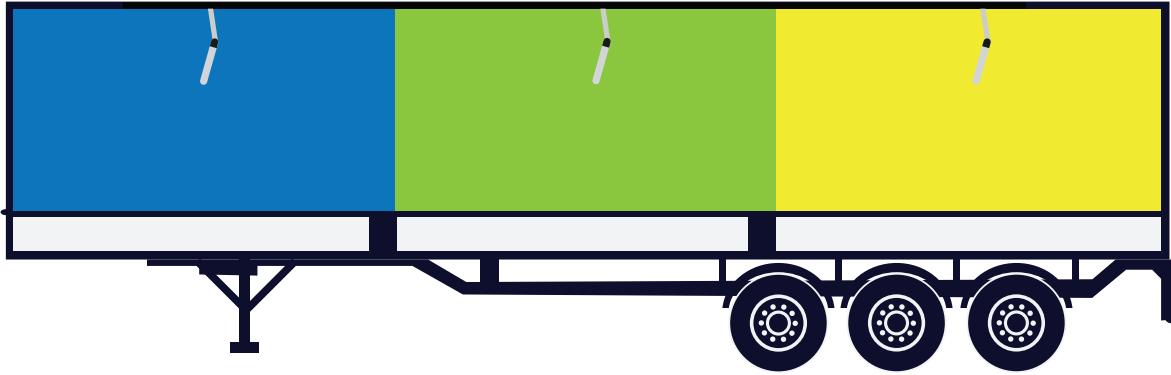


## Optional digital input

If the Input On/Off Event is enabled, you can choose to be notified of events, including, but not limited to: door unlock, door open/close, rear sliding door open/close, etc.

To enable an input, the Blue wire needs to be grounded for input on and the circuit open for input off. Using an open door and closed door as an example, the circuit is closed when the door is completely closed and the circuit is open when the door is open.

# Temperature sensor



## Mounting the sensor(s)

Determine optimal mounting location(s) for sensor(s). To avoid damage, choose location(s) away from cooling vents and heavily trafficked areas.

## Helpful guidelines

Temperature sensors are typically mounted on the rear front wall, beside the refrigeration unit and in the center or rear of the trailer.

Mount the sensors on the wall of the trailer, in an area that is exposed to ambient temperature, approximately halfway between the floor and ceiling.

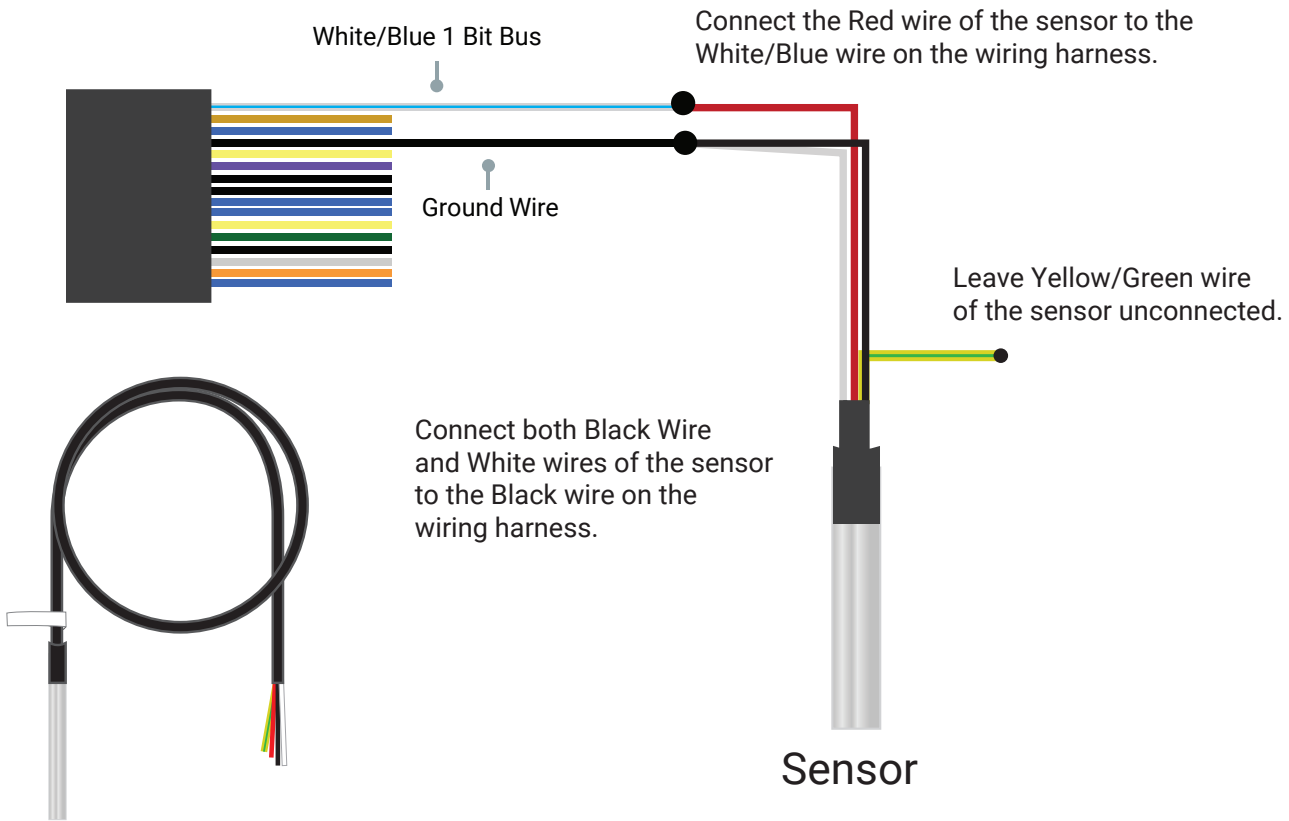
The orientation of the sensor does not matter.

Decide where the sensors will be mounted ahead of time and estimate the length of additional standard primary wire required to reach and link these sensors.

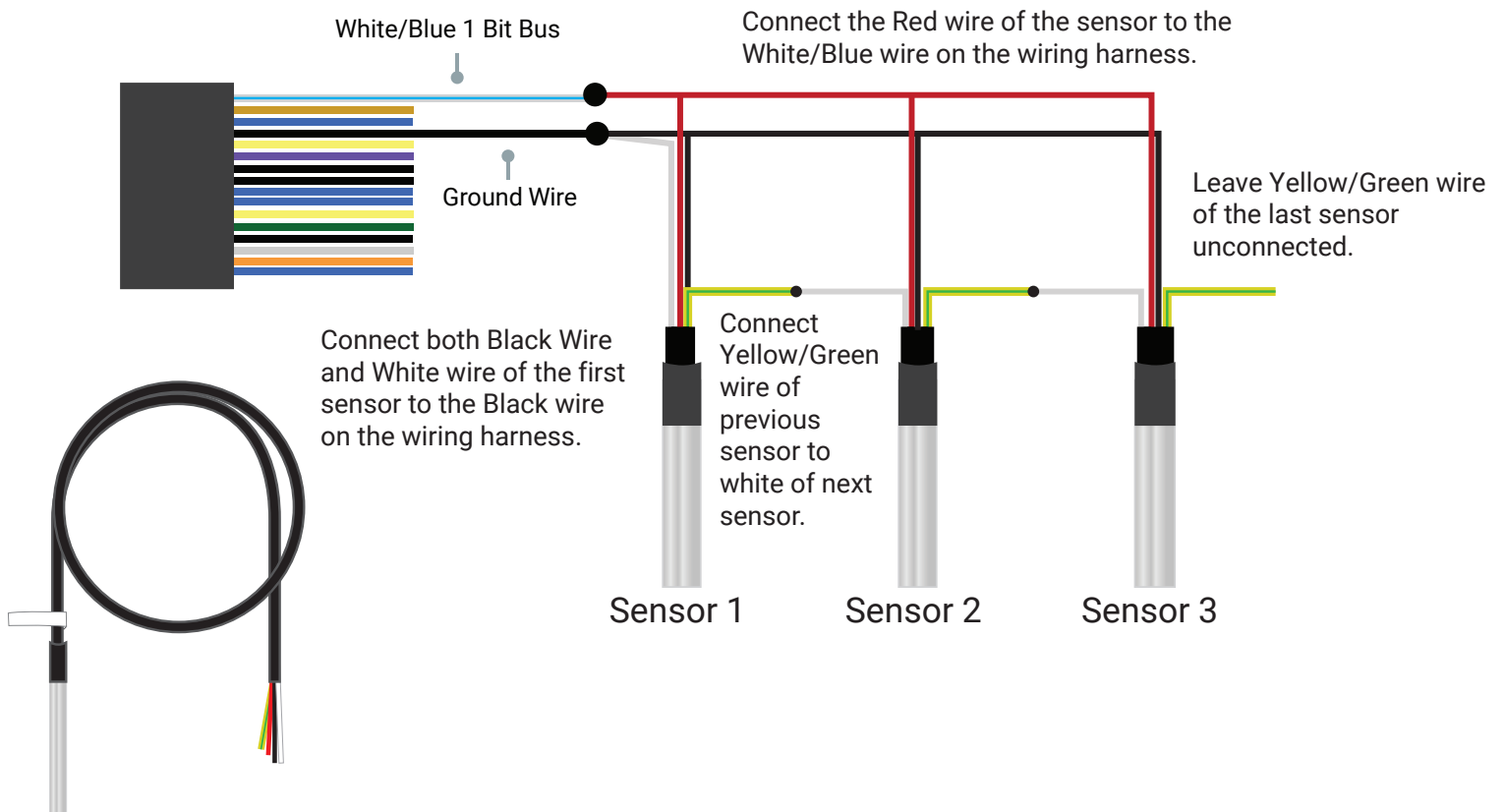
Two different lengths and colors of standard primary wire are required for each sensor.

DO NOT mount on the floor, in the direct flow of a refrigeration unit, or anywhere that may interfere with temperature measurements.

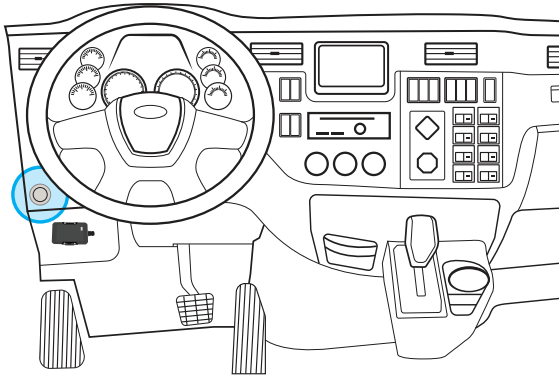
# 4 Wire single sensor installation



# 4 Wire multiple sensor installation



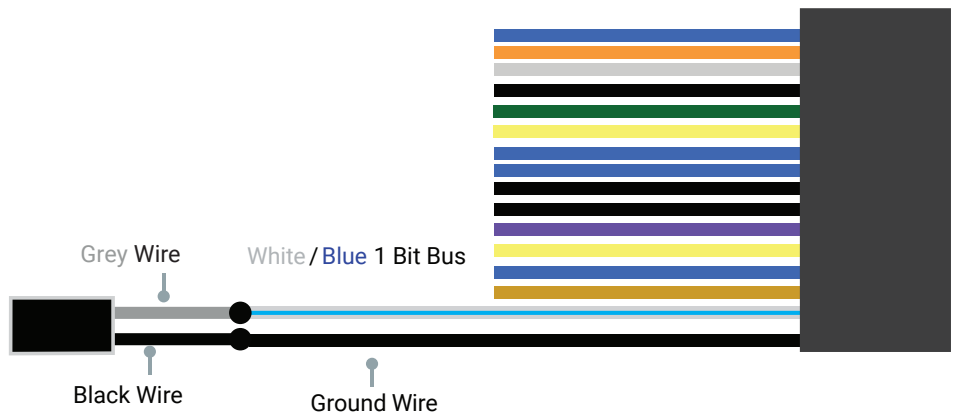
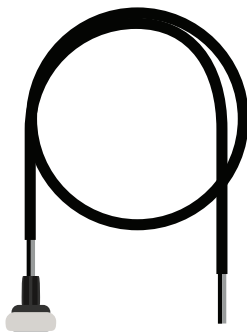
# Mounting the Driver ID Kit



Choose a convenient location in the vehicle, where the key fob reader is easily accessible. Under or on the vehicle's dash is ideal.

Drill a ½ inch hole and pass the key fob wires through, fastening the two reader washers into place.

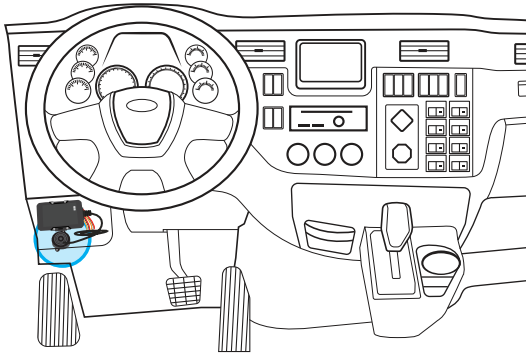
Please note: Use your best judgment when mounting the key fob reader. Exercise caution when drilling anywhere in a vehicle.



## Connecting the Key Fob

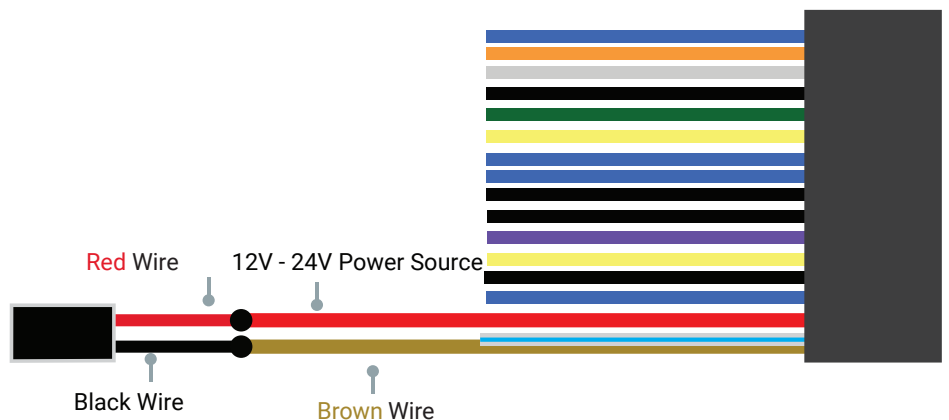
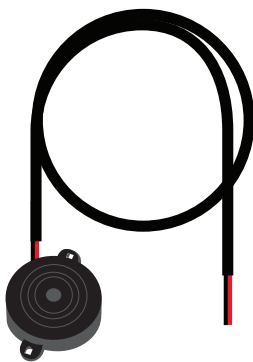
1. Connect the **White /Blue** wire (1-Bit Data) on the wiring harness to the **Grey** wire on the key fob.
2. Connect the **Black** wire paired with the **White /Blue** wire on the wiring harness to the **Black** wire on the key fob.

# Mounting the Driver Buzzer



Choose a convenient location in the vehicle, where the Driver Buzzer can easily reach the device's power harness.

Using double-sided tape or other adhesive (not provided), attach the buzzer to a clean, flat surface adjacent to the device. Make sure the buzzer is not blocking any heat vents or otherwise interfering with the normal operation of the vehicle.



# Connecting the Driver Buzzer

1. Connect the positive 12V-24V power wire on the wiring harness to the **Red** wire on the Driver Buzzer.
2. Connect the **Brown** wire on the wiring harness to the **Black** wire on the Driver Buzzer.



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If you are new to Zonar, make sure to check your email inbox for an email from [emailverification@fleetsimplified.com](mailto:emailverification@fleetsimplified.com) confirming your login credentials.



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