

Owner Installation Manual

1806 Wall/Post Mounted Sign covering:

CAR 1806 Alley Exit Sign



Last updated – Sept 2024
PassSigns.com
support@PassSigns.com
480-689-1993

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Solution

Warns pedestrians and street traffic of a vehicle exiting a parking facility with a Voice alert and flashing CAR text.

Description

The CAR Alley Exit warning system is a 18"H x 6"W x 7"D warning sign is designed to alert pedestrians and vehicles of cars exiting from alleys, blind spots, parking lots, and sliding gates. Equipped with a bright flashing "CAR" text, it ensures high visibility in critical areas. Additionally, its built-in voice annunciator audibly warns nearby individuals, enhancing safety for both pedestrians and drivers. Ideal for areas with limited visibility or high foot traffic, this sign provides an effective solution to reduce accidents and ensure smooth transitions for exiting vehicles. Its compact yet impactful design makes it perfect for urban and commercial settings.

How it operates

A TRIGGERING SENSOR detects a vehicle exiting a parking facility. It sends a signal to the PASS Controller (PSC) inside the System.

The PASS Controller (PSC) activates the system:

- Voice Alert—" Attention! Vehicles exiting watch for vehicles."

- Flashing text (3 sides) – CAR

- Flashing amber signal

PASS Controller continues to activate the sign for 10 seconds (adjustable) or if a second vehicle activates the system it resets the 10 second timer.

Audio cut-off Timer - The PSC has a programmable audio cut-off timer to allow for the audio alert to be silenced at designated times (i.e. 8pm to 8am)

Applications

Primary Application

Vehicle Exiting Warning System – This safety sign alerts pedestrians and drivers of exiting vehicles from blind spots, parking lots, and alleys with flashing "CAR" text and a voice annunciator.

Additional Applications:

- **Parking garages** – Alerts pedestrians and oncoming traffic of vehicles exiting the garage, especially in areas where drivers have limited visibility upon exit.
- **Alleyways** – Provides clear warnings for pedestrians and vehicles when cars are emerging from narrow alleyways, helping prevent sudden accidents in congested urban settings.
- **Blind driveways** – Ensures safe vehicle exits from hidden or obscured driveways where visibility is compromised by walls, vegetation, or neighboring buildings.
- **Loading docks** – Enhances safety by signaling when trucks or delivery vehicles are backing out of loading docks into areas shared by pedestrians and other vehicles.
- **Gated communities** – Positioned near sliding gates, it alerts both residents and visitors to cars entering or exiting the community, improving overall traffic safety.
- **Shopping malls** – Located near parking lot exits, it warns pedestrians and drivers of vehicles exiting high-traffic parking structures or lots.
- **Hospitals** – Strategically placed at emergency driveways, it helps alert pedestrians and ambulances to the movement of vehicles in critical, fast-paced environments.
- **Schools** – Improves safety near bus loading zones and car pickup lanes, ensuring drivers are aware of vehicles and children crossing.
- **Factories/Industrial parks** – Positioned near the exits of busy industrial areas, it warns both employees and visitors of vehicles, forklifts, or heavy equipment moving in and out.
- **Airports** – Enhances safety in busy airport parking areas or at restricted access points, warning pedestrians of service or passenger vehicles exiting.

Specifications

CAR Alley 1806 Sign Specifications

Part name: CAR Alley 1806 Exit Warning System

Part#: CAR1806VW3 (see Kits below)

Sides: 3-Sides – Car Coming

Mounting: Wall or Post mounted, 40" clearance under

Dimensions: 18"H x 6"W x 7"D

Material: 14AWG Aluminum, Weatherproof

Finish: Hammered copper textured powder coating

Power In: 100-240VAC, or 12VDC, Other options available

Part numbers:

CAR1806VW3-KIT (primary sign)	Primary sign with LEDs, PSC Intelligent controller, Audio module, Audio cut-off timer, Speaker, & Power supply
CAR1806VW3-BASIC (secondary sign)	Secondary sign, LEDs & Speaker only. Use for exits wider than 25' if needed.

Powder Coating example:



Triggers and Accessories for your Installation

 Easy installation	Flashing “STOP and LOOK” sign. Application: Used to stop exiting traffic before leaving the facility to prevent pedestrian accidents. This sign is controlled by the Primary Sign Controller and can be configured to flash 24/7 or only flash when a vehicle is detected exiting the facility. Part Numbers: SAL1212HW 12”x12” (most common small facilities) SAL1818HW 18”x18” (most common larger facilities) SAL2424HW 24”x24” (most common in high-speed or multiple lanes facilities)
 Easy installation	Directional-logic Vehicle Motion Detector (Most common sensor) Application: Intelligent motion detector used to detect vehicles exiting. This motion detector is used in areas where other vehicles and pedestrians may cause false alarms. This motion ONLY detects vehicles and ONLY detects vehicles approaching the motion. Range 26’x10’ Part Number: PS-VMD-DL
 Average installation	Narrow Beam Vehicle Motion Detector Application: Typically used above barrier gates or roll up doors. Only detects movement in a small area 6’ x 6’. This motion is not intelligent and will detect any motion in the detection area. Due to the limited range, it can often take more conduit to reach your detection zone. Part Number: PS-VMD-NB
 Costly install	Loop Detector Application: Typically, is the smartest of all sensors because it has the highest detection probability of detecting vehicles. However, this solution is best for new construction before concrete is poured. Loop detectors are easy to use and the quality is ideal. Part Number: PS-LD1
72x4x4 Sign Post Ground Mount • 72” x 4” x 4” Pink Post/Black Base 	Free standing 72x4x4 Sign post Application: Used when wall space is limited or out of range of the sidewalk. This post is high quality strong steel and textured black powder coating to match the sign’s back plate. Part Number: PS-Post7204G
	Outdoor speaker, 30W Stainless steel Application: If additional volume is needed due to street traffic noise the outdoor speaker can boost the voice or audio warning. Part Number: PS-SpeakerOD

Planning your installation

Goals of your installation:

- 1) The Sign must be in a visible spot so that pedestrians, and bicycles can see it from a distance of **5 seconds of traveling** (walking or riding) before they are in the danger zone of a vehicle pedestrian collision.
- 2) The Sign's Audio Alert must be audible so that pedestrians can hear it from a distance of **5 seconds of traveling** (walking or riding) before they are in the danger zone of a vehicle pedestrian collision.
- 3) The Vehicle Detection sensor must allow the sign to activate for a minimum of 3 seconds before the car exits. This can be accomplished in different ways:
 - a. Placing the detection system far enough away to allow 3 seconds of vehicle travel before the vehicles exits.
 - b. If there are multiple pathways leading to a common exit, then multiple sensors can be used to detect cars.
 - c. Using a flashing STOP AND LOOK sign at the exit for drivers can provide a delay to stop the vehicle before exiting.

Common Cabling Examples

All cabling shown below assumes distances of 50' or less. If exceeding 50', use proper wiring as specified by your local codes and ordinances.

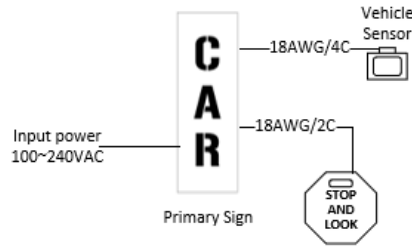
Important Notes:

Only the Primary sign needs AC voltage. All other devices receive their power from the primary sign.

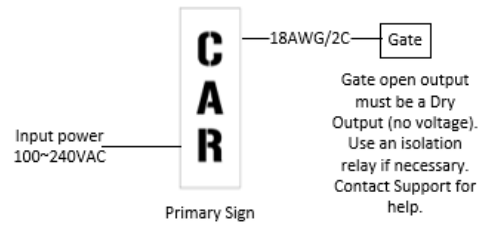
Low Voltage Installation – you may remove the Power Supply from the Primary Sign and install it elsewhere to make all cabling to the sign to be low voltage.

Input Power – If your installation requires a different input voltage (24VDC, 277VAC or other) let us know at ordering and we can provide the proper power supply for your installation.

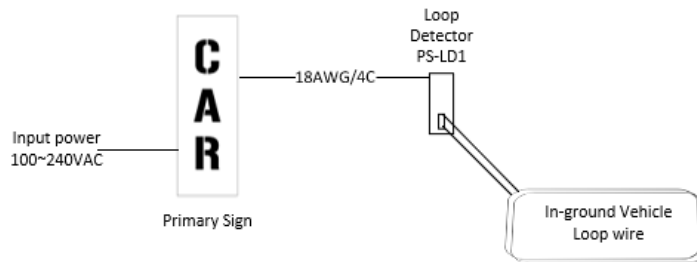
CAR1806VW3 common cabling for single sensor and Flashing Stop Sign



CAR1806VW3 common cabling from GATE OPEN output from door or barrier gate



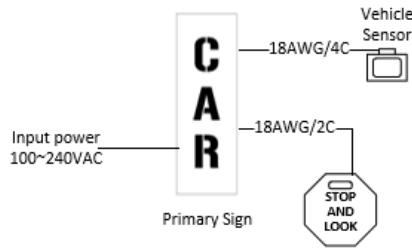
CAR1806VW3 common cabling for Loop Detector



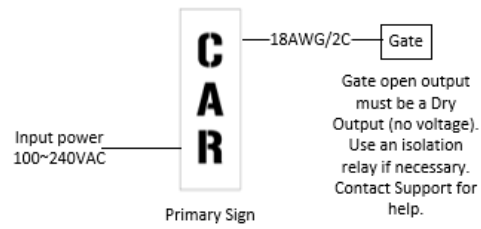
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ANSI A 8.5" x 11"	
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CAR1806VW3 – CAR Warning Sign – Common cabling of devices	Drawn by: Jeff Terrozas Date: 2023

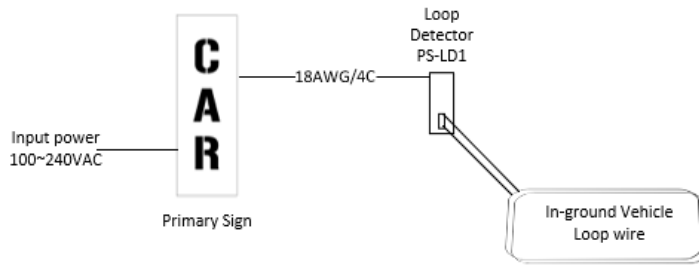
CAR1806VW3 common cabling for single sensor and Flashing Stop Sign



CAR1806VW3 common cabling from GATE OPEN output from door or barrier gate



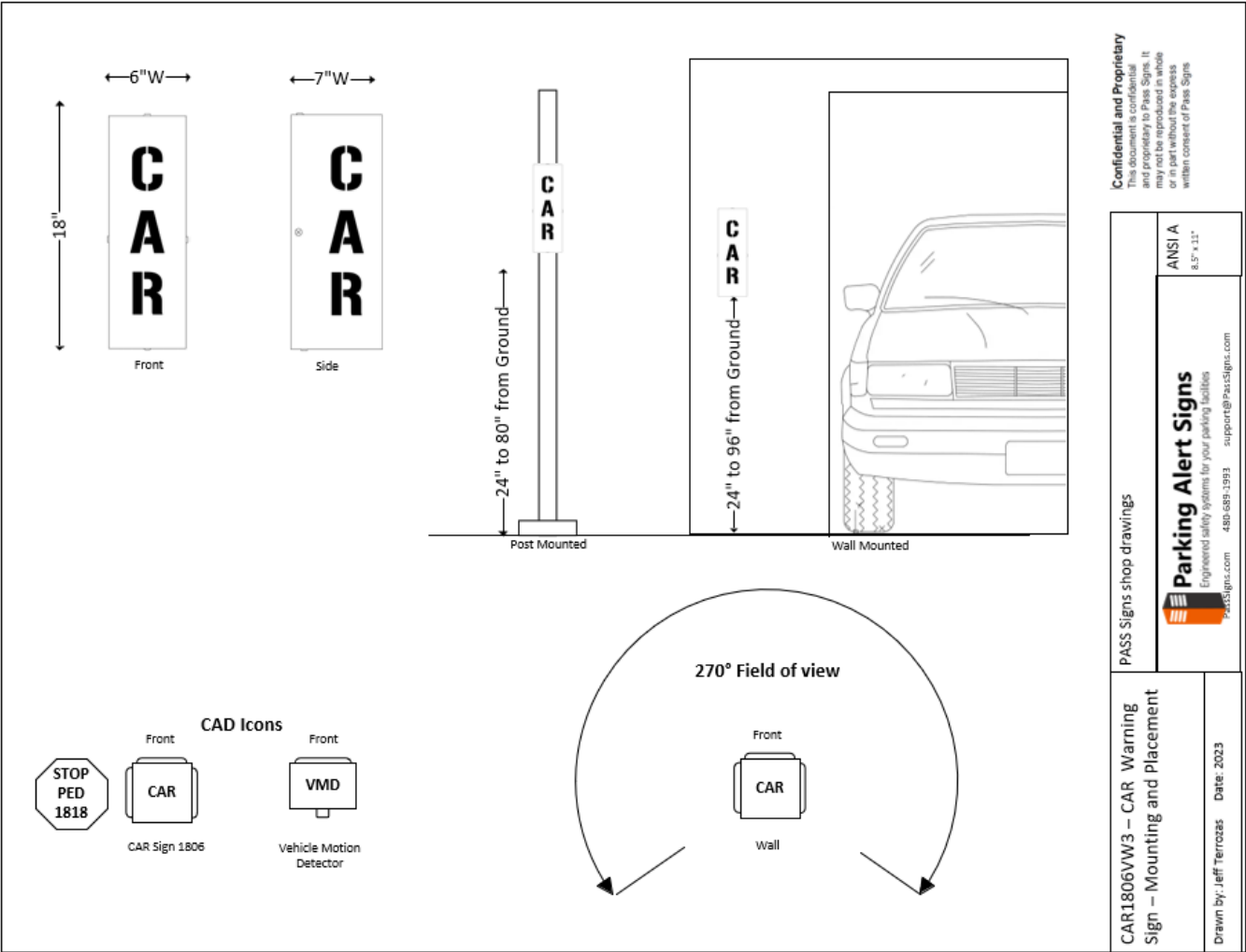
CAR1806VW3 common cabling for Loop Detector



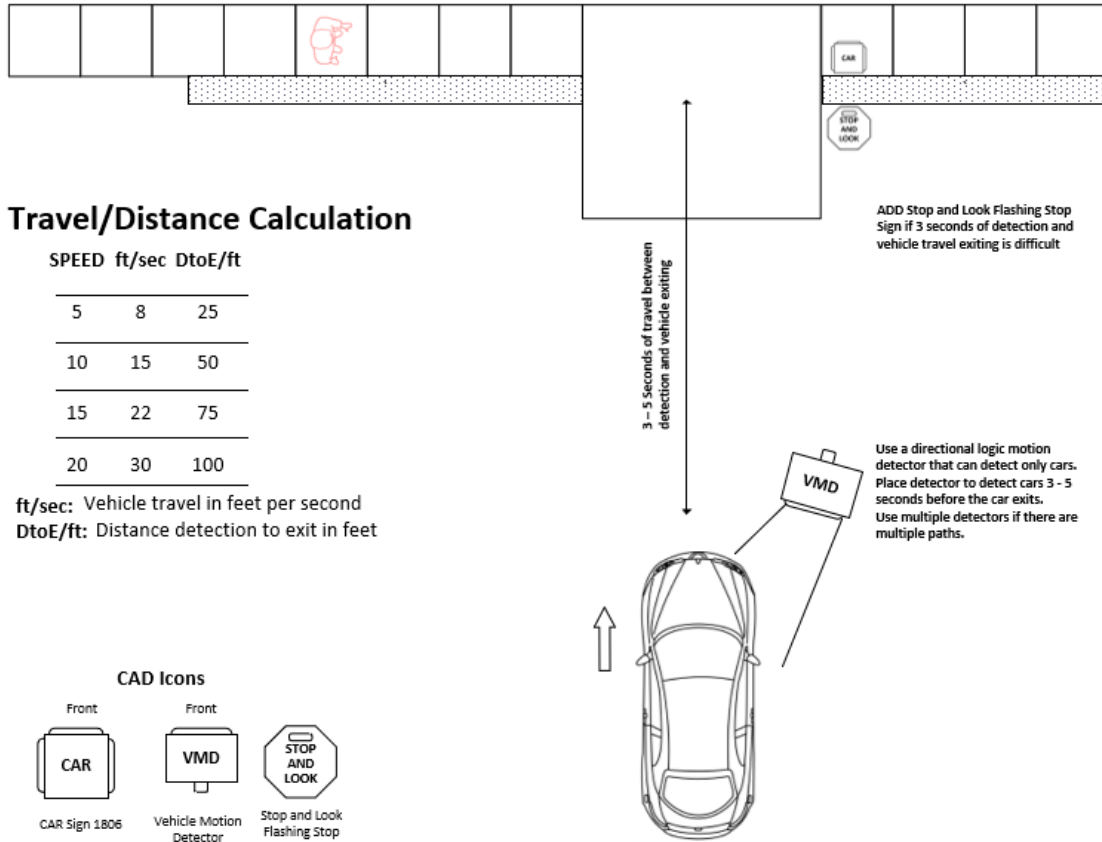
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PASS Signs shop drawings	ANSI A
	8.5" x 11"
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CAR1806VW3 – CAR Warning Sign – Common cabling of devices Drawn by: Jeff Terrozas Date: 2023	

Mounting the device



◀ Ideally Sign should be visible from 50' in either direction ▶



Travel/Distance Calculation

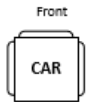
SPEED ft/sec DtoE/ft

5	8	25
10	15	50
15	22	75
20	30	100

ft/sec: Vehicle travel in feet per second

DtoE/ft: Distance detection to exit in feet

CAD Icons



CAR Sign 1806



Vehicle Motion Detector



Stop and Look Flashing Stop Sign

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PASS Signs shop drawings

ANSI A

8.5" x 11"

Parking Alert Signs

Engineered safety systems for your parking facilities
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CAR1806VW3 - CAR Warning Sign - Mounting and Placement

Drawn by: Jeff Terrozas Date: 2023

Opening the Sign

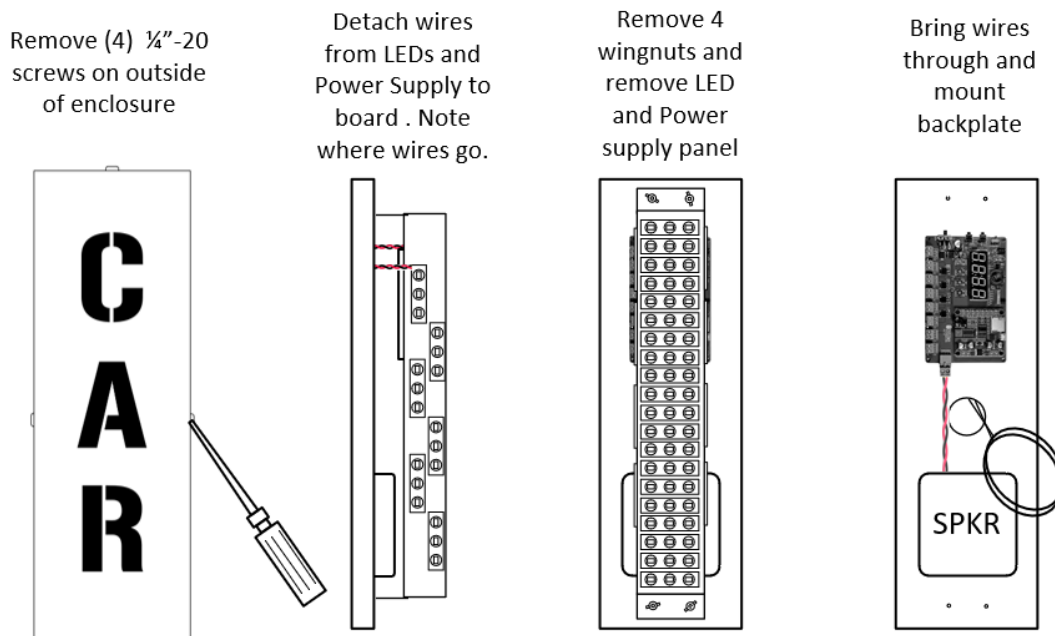
- 1) Place the sign on a scratch free surface such as the shipping box.
- 2) Remove the four ¼" – 20 stainless steel screws.
- 3) Remove the cover.

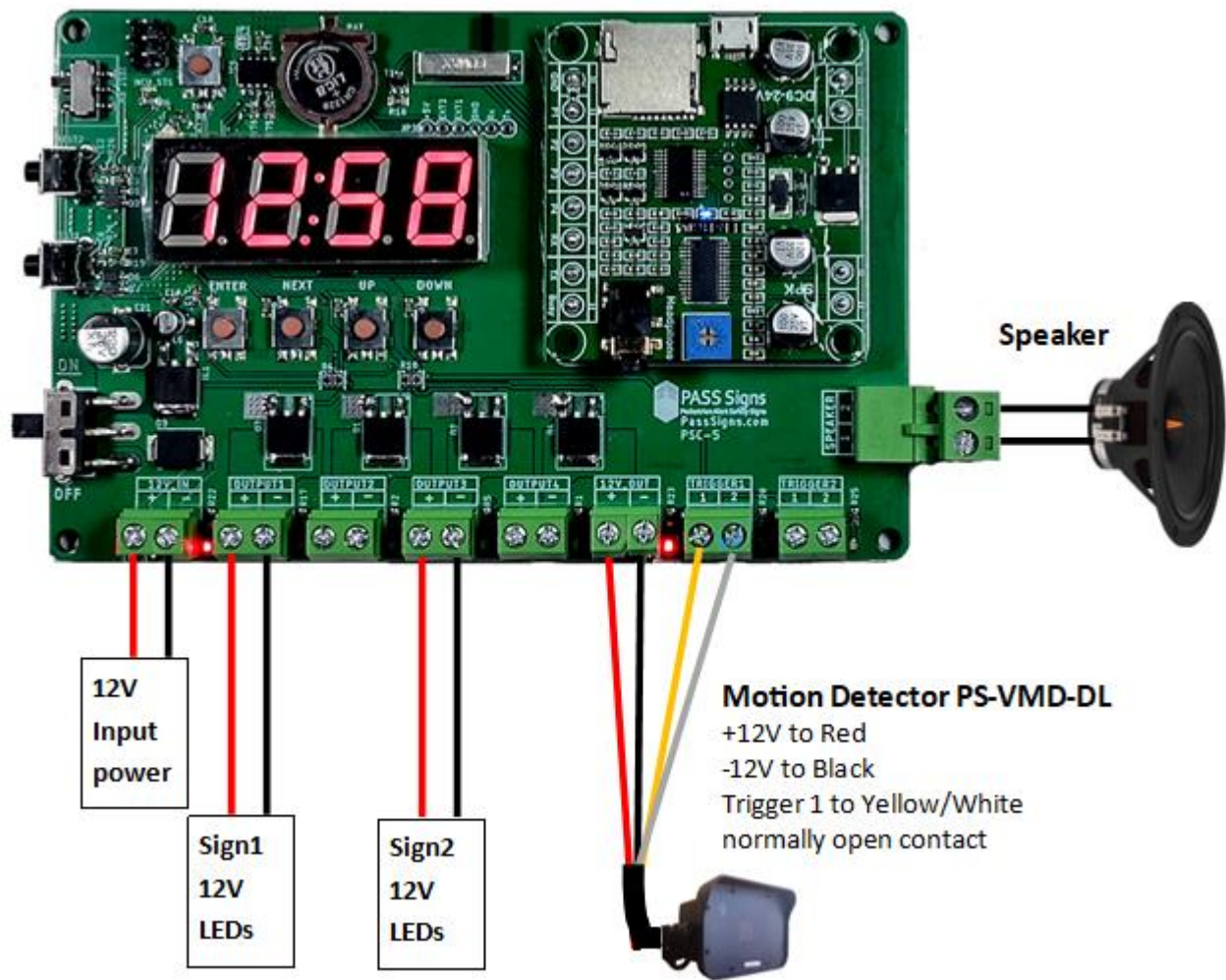
Preparing and terminating the sign

- 4) Remove the Power Supply wire and the LED Wire from the internal Remove the (4) Wing nuts holding the internal plate and place internal plate in a safe place.
- 5) Mount your back plate to the wall using (4) anchors or a post with a minimum of (2) anchors and bring wire through.
- 6)

KEEP ALL POWER OFF UNTIL ALL WIRES ARE VERIFIED AND TESTED. USE A MULTI-METER ON ALL WIRES BEFORE LANDING ON CONTROL BOARD TO VERIFY SOURCE. MISWIRED BOARDS WILL VOID WARRANTY.

- 7) Use the internal plate and (2) Wing Nuts to allow you to hold the internal plate in place while wiring the Controller and Power Supply.
- 8) Test System, Program Controller (see Controller documentation), and set Volume.
- 9) Reverse steps 1-4 to assemble unit and return to service





Troubleshooting system

Q: There are no lights on the Control Board.

A: Power supply is not supplying 12VDC to the Control Board.

The RED LED power on the Control Board will light if Power is being supplied. Even if the power switch on the Control Board is off.

Use a multimeter to ensure that AC Voltage is powering the Power Supply.

Then check to ensure 12VDC power is being output from the Power Supply.

Double check the wiring connections throughout the power and Control Board.

If power is being supplied to the Power Supply but not outputting 12VDC then contact PASS Signs for a replacement Power Supply.

Q: When I power up the system the sign activates continually

A: The sign is receiving an Input Closure continuous on either Trigger 1 or Trigger 2.

Check that the mini slide switch for Testing on the Control Board is set to OFF. This mini slide switch is next to the test buttons

Check the Input lights for a GREEN Led on Input1 or Input 2. Remove wires from Input 1 and Input 2 and if the GREEN Led turn offs and the sign stops activating then your vehicle detector sensor could be wired improperly or the sensor could be stuck closed.

Q: The lights and lettering flash but I have no Voice or Audio

A: The volume is turned down or the speaker connection is loose

Turn the small blue dial on the Voice Module of the PASS Control Board

Check the speaker connections are tight on the PASS Control Board

Q: The sign activates when I push the Test Buttons, but the sensor is not activating the systems.

A: The sensor may not be landed on the proper inputs or may not have power

Check that the signal cable from the sensor is a DRY OUTPUT. No voltage should be sent from the sensor to the PASS Control Board. The PASS Controller uses a Normally Open output and activates on a Dry Closure.

Use a multi-meter on Continuity setting and test the cabling from the sensor is OPEN Line In normal state and shows Continuity when closed (0 Resistance).

Ensure the sensor is powered up.

Because of the numerous sensors that can be used it is impossible to address all issues in the document.

Contact Support@PassSigns.com for help.

Device Maintenance

Maintaining Enclosure Finish

To ensure the maximum extension of the product, the following maintenance is required:

Time Period	Action
Every 6 months Outer Enclosure cleaning	Wipe down the outer enclosure with soap and water to clean the powder coating. Remove the front enclosure and wipe down the inside and clean the back of the plastics to ensure maximum brightness through the plastics with soap and water. Using a sealant and protectant (example: Amor All) wipe down all the powder coated areas to avoid scale build up on the outer enclosure.
Every 1 year Inner Enclosure cleaning	Ensure bugs and spiders are not living inside the unit Wipe down the inside of the plastics to keep brightness Check for any signs of water penetration
Every 30 days Testing the unit	If the unit is not monitored daily by the end-user, ensure that a technician tests the system every 30 days for the following: - Audio volume - LED Brightness - Sensor sensitivity - Detection area - Activation Timer (typically 10 seconds) - Timing between detection of the vehicle and activation of the sign