

# THEA CONNECTED VEHICLE PILOT TOYOTA DRIVERS MANUAL

# CONGRATULATIONS!

Now that you've completed your driver training and have your equipment installed, you're ready to go. We want you to know we're here to support you with any questions, needs, or situations that may arise during your participation in the THEA Connected Vehicle Pilot.



In this manual, you'll find detailed warning and alert information that's displayed on your head-up display. We've also provided a list of frequently answered questions for you to reference in regard to troubleshooting and maintaining your equipment. For your convenience, you'll find a tip card with contact information should you need to get in touch.

If have any additional questions or need further assistance, please call us at (813) 280-3405 or email us at [info@theacvpilot.com](mailto:info@theacvpilot.com) and we will be happy to help you.

Stay Connected,  
The THEA CV Pilot Team

## SAFETY ALERTS

On the following pages is a list of warnings and alerts that will appear on your head-up display along with their meaning and your expected response.



COLLISION  
WARNING

## SAFETY ALERTS – Morning Backups

First, let's look at the morning backups alerts. There are three safety alerts you should expect to see only on the Lee Roy Selmon Expressway Reversible Express Lanes, especially during rush hour. These alerts also notify drivers when they enter the sharp curve ending at a traffic signal at the intersection of East Twiggs Street and Meridian Avenue at an unsafe speed.





1

This alert means you are driving in a reduced speed zone. You should observe the 40 mile-per-hour posted speed limit.



2

This alert means there is traffic backed up ahead. You should observe the 30 mile-per-hour recommended speed limit, pay attention, and watch for slow or stopped vehicles that may change lanes into your path.



3

This alert also means there is traffic backed up ahead. You should observe the 20 mile-per-hour recommended speed limit, pay attention, and watch for slow or stopped vehicles that may change lanes into your path.



## **SAFETY ALERTS - Collision Avoidance**

Now let's look at the collision avoidance alerts. There are three safety alerts you should expect to see only on the Lee Roy Selmon Expressway Reversible Express Lanes and in the downtown Tampa area. These alerts are designed to reduce the risk of a potential crash with another connected vehicle.



1

This alert means a vehicle ahead of your path is braking hard therefore you are at potential risk of a rear-end collision with the vehicle in front of you. You should observe the situation and brake when appropriate.



2

This alert means you are at risk of a rear-end collision with the vehicle in front of you. You should brake immediately.



3

These two alerts mean you are on a potential collision course with another connected vehicle coming from another direction, either from left or right of you. It may even be obstructed from your view.



You should pay attention, look around and proceed with caution.



## **SAFETY ALERTS - Wrong Way Entry Prevention**

Other types of alerts are intended specifically to prevent wrong-way entry on the Lee Roy Selmon Expressway's Reversible Express Lanes and Jackson Street from Meridian Avenue.



Some lanes at the downtown end of the Reversible Express Lanes are closed to all traffic at certain times of the day. If you see this alert, it means you are now entering a lane that is closed to traffic. You must safely exit the one-way lanes.



If you have entered a lane that is closed to traffic and continue going in the wrong direction, you will see this alert, meaning you are now going in the wrong direction on the Reversible Express Lanes or Jackson Street. You must safely exit the one-way lanes.



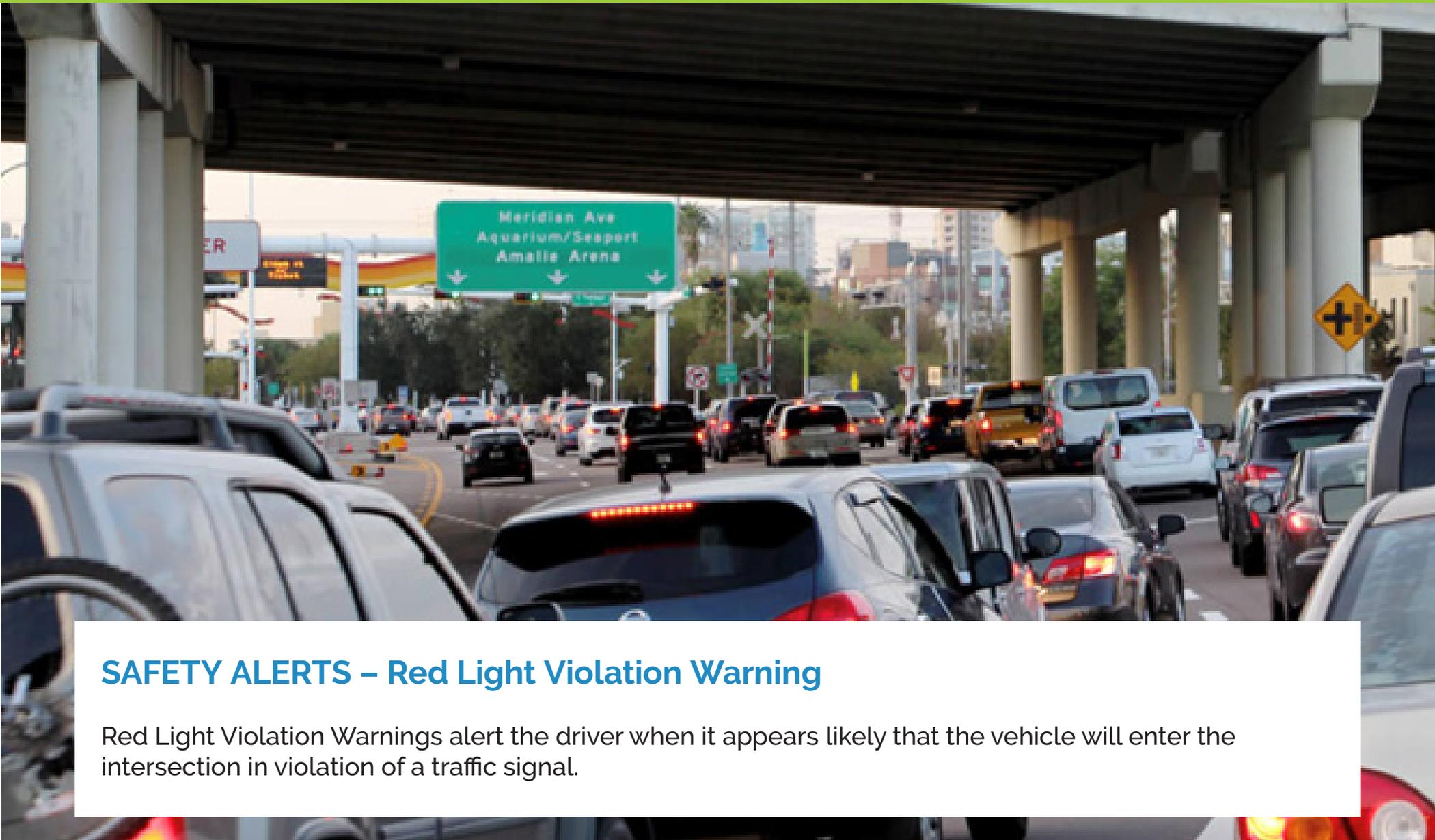
This alert means a wrong-way vehicle has entered the Reversible Express Lanes or Jackson Street from Meridian Avenue to Jackson Street and is headed in your direction. You should proceed with extreme caution and be alert for a potential vehicle heading toward you.

## SAFETY ALERTS - Pedestrian Safety

Another goal of the connected vehicle pilot is to improve pedestrian safety, especially at the midblock crosswalk near the Hillsborough County Courthouse on Twiggs Street and Jackson-Meridian intersection. Here, roadside sensors will detect pedestrians in the crosswalk. Participating drivers will receive a warning when there is a pedestrian ahead.



This alert indicates the presence of a pedestrian in the crosswalk and is displayed for reference only. Drivers must always yield to pedestrians within crosswalks according to Florida Statutes.



## **SAFETY ALERTS – Red Light Violation Warning**

Red Light Violation Warnings alert the driver when it appears likely that the vehicle will enter the intersection in violation of a traffic signal.



When the traffic signal ahead turns red and your vehicle is predicted to enter the intersection under the red indication, a red light violation alert will be displayed. This information is displayed for reference only. Drivers must obey all traffic signal indications according to Florida Statutes.



When the traffic signal ahead is red, a green traffic signal icon and a countdown indicator for the predicted time to green indication will be displayed. This information is displayed for reference only. Drivers must obey all traffic signal indications according to Florida Statutes.



As you approach an intersection equipped with the connected vehicle technology, if the traffic signal ahead is green, a green traffic signal icon and a countdown indicator with the predicted time to yellow signal will be displayed.

## Troubleshooting Your Equipment

Please contact us at (813) 280-3405 if you have any issues with your equipment. Below are a few tips.



When your equipment is working properly, you will see a blank screen when there is no alert, or you are not near another connected vehicle or intersection.

The white icon in the lower left corner of the head-up display indicates that your vehicle is receiving signals from other vehicles and/or intersections equipped with connected vehicle technologies.

If a yellow triangle with a black exclamation point appears in the lower right corner of your head-up display, like this, your connected vehicle equipment is unable to determine its location using information from GPS satellites. Occasional brief location outages are normal and need not be reported.

The triangle may also be displayed when there is a system error. If it doesn't disappear within a day, please contact the Help Desk to report the issue.



# FREQUENTLY ASKED QUESTIONS

## **My connected vehicle equipment is not working. What should I do?**

Please call the help desk at (813) 280-3405 or email us at [installs@theacvpilot.com](mailto:installs@theacvpilot.com) for troubleshooting assistance or to schedule an appointment for service.

## **I accidentally cut one of the wires to my connected vehicle system. Can I repair it myself?**

No. Some of the electrical wires have an electrical shielding that cannot be repaired. Please call the help desk at (813) 280-3405 or email us at [installs@theacvpilot.com](mailto:installs@theacvpilot.com) to schedule an appointment for service.

## **The volume on my connected vehicle speaker is too high or too low. Can I adjust it?**

The speaker has been preset to a volume that can be heard above other sounds in the car. There are no user accessible volume controls. Please call the help desk at (813) 280-3405 or email us at [installs@theacvpilot.com](mailto:installs@theacvpilot.com) if you have a concern.

## **Can I transfer my connected vehicle equipment to another vehicle?**

Your equipment has been assigned to your specific vehicle and customized for your vehicle type, so please do not attempt to transfer it to another vehicle. If you have purchased (or plan to purchase) a new vehicle, please call the help desk at (813) 280-3405 or email us at [installs@theacvpilot.com](mailto:installs@theacvpilot.com) to schedule an appointment to transfer the equipment.

## **Why doesn't my connected vehicle equipment work when I drive in certain areas?**

The most likely cause is poor or no signal reception. You may be driving outside the Connected Vehicle Pilot deployment area, or the signal may be blocked by large trucks or buildings. You may also lose signal reception if you have moved your roof-mounted antenna.

# FREQUENTLY ASKED QUESTIONS

**If I am in a crash when an alert is displayed on my head-up display, will the authorities be notified?**

No, the system in your vehicle cannot detect a crash or communicate with the authorities.

**Will the connected vehicle equipment void the warranty on my vehicle?**

In general, the installation of aftermarket equipment should not affect your warranty. Furthermore, the connected vehicle equipment does not interface with your car's engine control unit and does not affect your car's performance, so the equipment is unlikely to cause a need for repair. Please check your owner's manual or warranty agreement for details.

**What if the equipment scratches or damages my car? Will my insurance cover the damage?**

Your connected vehicle equipment is designed to be installed and removed without leaving any marks on your vehicle. Specific questions regarding insurance coverage should be directed to your auto insurance company.

## SunPass Questions

You may have received a new SunPass transponder at the time of installation. If you have any questions regarding your transponder, toll rebate or billing, please contact SunPass at (888) 865-5352 for assistance.