



# Getting the Most from Idle Smart

An instruction guide to the Do's and Don'ts of operating the system

- Product Usage
- Troubleshooting Tips

# Product Information

## *How Idle Smart Works*



Idle Smart continuously monitors the cabin and ambient temperatures in addition to your vehicle's battery voltage and coolant temperature and will automatically start your engine only when one of these three conditions is met:

- ▶ The cabin temperature is not within the programmed Cabin Temperature Range
- ▶ The battery voltage level is below the programmed threshold in the Battery Protect settings
- ▶ The ambient AND coolant temperatures are both below the programmed thresholds in the Cold Start Guard settings

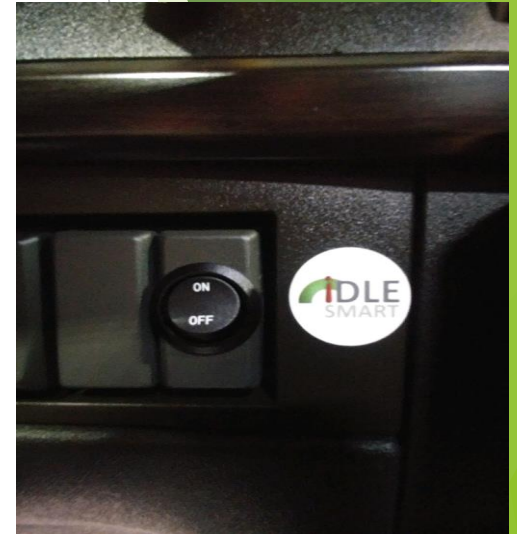
**\*\*For your safety, Idle Smart will only run the engine when you've set your Parking Brake, placed your vehicle in Neutral, and turned the Ignition to the Off position.\*\***

# Product Information

## Using the Idle Smart System



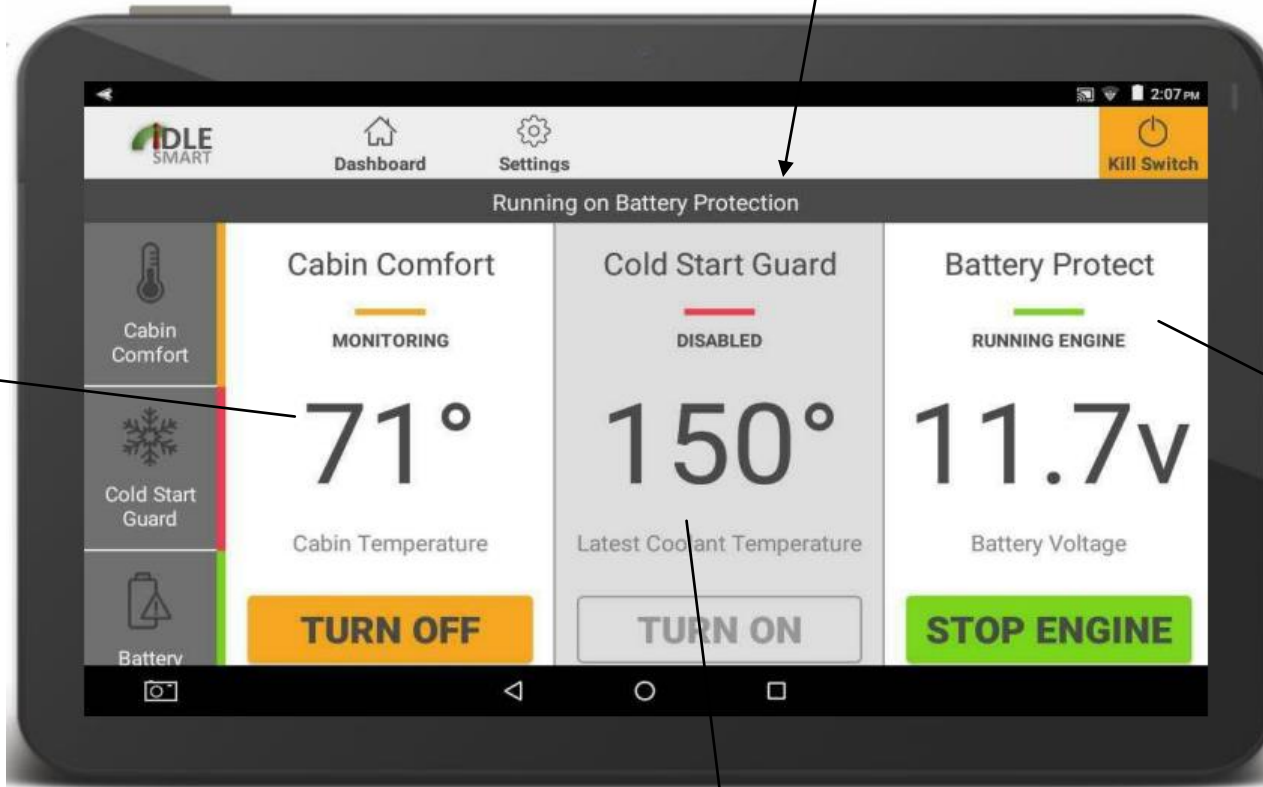
- ▶ Idle Smart will automatically begin monitoring your vehicle when:
  - ▶ The key is in the 'Off' position or out of the ignition
  - ▶ The truck has been placed in Neutral
  - ▶ The Parking Brake has been set, and turn they key off or take it out of the ignition.
- ▶ Make sure the switch on the dash is in the 'ON' position (unless the vehicle is being worked on in a shop)
- ▶ If you are staying in the vehicle overnight, check the system display in the bunk to be sure 'Cabin Comfort' is ENABLED.
- ▶ If you are leaving the truck parked and not staying inside, no action is needed. Idle Smart will automatically start the engine to keep the batteries charged and the engine warm while you are away from the vehicle.



↳ Dash Button

# Driver Display Panel

The black bar will display what state the system is currently in. It will tell you if there is an error, what parameter is running the truck, and gives an idea to what may need to be corrected for troubleshooting purposes.



## Cabin Comfort:

The value on screen is current cabin temperature. When enabled, it will monitor your desired temperature to keep you warm/cool.

## Battery Protect:

This shows the current battery voltage. When enabled, it monitors the state of charge on the batteries and starts the vehicle to charge them up when they get below the desired voltage.

## Cold Start Guard:

This value shows the most recent coolant temperature reading. When enabled, it monitors the coolant and outside temperature to keep the engine warm in colder weather.

## **\*\*IMPORTANT NOTICE\*\***

**A driver only needs to use the tablet when enabling/disabling Cabin Comfort or directed to by a fleet manager or Idle Smart agent.**

# Do's and Don'ts



There are a few things to keep in mind to ensure the Idle Smart system is working efficiently and safely for every driver.

## DO's:

- Keep the desired features (Cabin Comfort, Battery Protect, and Cold Start Guard) 'ENABLED' unless told otherwise.
- Make sure all air vents are open, windows are closed, and the heat/ac dials are 'On' and set to medium/high for accurate readings and efficiency.
- Call Idle Smart for assistance when the system displays an error or is not starting the vehicle for additional troubleshooting.

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## DON'Ts

- Do not turn **the Kill Switch** off for any reason. Only when the vehicle is being serviced.
- Do not unplug the USB cord to the tablet unless instructed to do so.
- Do not try connecting the tablet to WiFi or using the tablet for personal use.

# Troubleshooting Tips

This is a list of real-time system status alerts on the tablet that can occur due to the following faults:

## Vehicle not in Neutral:

Vehicle will not start because the vehicle is not in Neutral. If it is in Neutral, call Idle Smart for further assistance.

## Parking Brake Not Set:

Vehicle will not start because the vehicle's parking brake is not set. If it is set, call Idle Smart for further assistance.

## Hood Switch Error:

Vehicle will not start because the system says the hood is open. If not, call for assistance to make sure the hood switch is installed properly.

## Battery Voltage Low:

For protection of batteries, Idle Smart will not run the vehicle if the voltage is below 12.0 Volts. Check battery health.

## Ignition Switch is ON:

Idle Smart will not start the vehicle while the key is in the ignition or in the 'On' position.

## Outside Temperature Sensor:

Vehicle will not start because there is a connection issue with the harness/probe. Check if there are kinks or if it may have disconnected.

## Cabin Temperature Sensor:

Same procedure as outside temperature sensor.

## Unexpected Truck Shut Down:

Vehicle shut down before Idle Smart completed a full run. Check that the ECM idle timers are set 1-2 minutes higher than the Idle Smart system settings.

## Overcrank Protection:

Idle Smart was not able to start the truck after (3) attempts. Check connection with ignition harness/plug.

## CANBUS Error/Not Reading Truck Data:

Vehicle is not communicating with Idle Smart through the 1939 data link harness. Check connection.



## **\*\*IMPORTANT NOTICE\*\***

In most cases, the system may just need to be power cycled. You can do this by either unplugging the 12v power harness directly from our control box and wait 30 seconds, or flip the battery disconnect switch if the vehicle contains one.