

Test Scenario	Test Case	Pre-Conditions	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail
Check App Launch	Check that app launches to homescreen when clicked	- Apple iPhone w/ iOS16 or newer - App installed on phone	- Click app icon	N/A	Homescreen Loads	Homescreen Loaded	Pass
Check Bluetooth scanning	Check that app is scanning for Bluetooth devices	- App launched and on homescreen	- Click the "Show Available Bluetooth Devices" button	N/A	List of peripherals in the area displayed	List of peripherals in the area displayed	Pass
Select/pair with Bluetooth device	Check that app selects desired Bluetooth device and pair to it	- App on Peripherals view	- Click the desired device in the available devices list	N/A	Paired with Bluetooth device and transferred to the connected homescreen view	Paired with Bluetooth device and transferred to the connected homescreen view	Pass
Loading screen works	Check that the loading screen appears and the animation works	- Bluetooth device selected from the of peripherals	- Peripheral was selected in previous step	N/A	App Title and animated gear appear on screen	App title and animated gear appeared on screen	Pass
Check app connected home view	Check that the app loads the correct view after vehicle data initialization is complete	- Bluetooth device selected from the of peripherals	- Peripheral was selected in previous step	N/A	- "Live Data View" button - "Trouble Code View" button - "Vehicle Info View" button	App will display the connected home view w/ - "Live Data View" button - "Trouble Code View" button - "Vehicle Info View" button	Pass
		- Animated loading screen currently on screen					
Check functionality of "Vehicle Info View" button	Check that app loads the Vehicle Information View	- On connected home view	- Press the "Vehicle Info View" button	N/A	- VIN - Calibration ID - OBD-II Protocol - ECU Name - Fuel Type	App displayed the view title and Vehicle's information: - VIN - Calibration ID - OBD-II Protocol - ECU Name - Fuel Type	Pass
Check "Back" button functionality	Check that the app goes back to the connected home view	- On the Vehicle Info View	- Press the "Back" button	N/A	The app will close the Vehicle Info View and go back to the connected home view	The app closed the Vehicle Info View and went back to the connected home view	Pass
Check the functionality of "Trouble Code View" button	Check that the app loads the Trouble Codes View	- On connected home view	- Press the "Trouble Code View" button	N/A	The app will display the Diagnostic Trouble Codes View: - Showing a list of current DTCs the vehicle has	The app displayed the Diagnostic Trouble Codes View and displayed an empty list with the "No DTCs Found" description	Pass
					OR - Show an empty list with the "No DTCs Found" description		
Check "Back" button functionality	Check that the app goes back to the connected home view	- On the Trouble Codes View	- Press the "Back" button	N/A	The app will close the Trouble Codes View and go back to the connected home view	The app closed the Trouble Codes View and went back to the connected home view	Pass
Check the functionality of the "Live Data View" button	Check that the app loads the Live Data View	- On connected home view	- Press the "Live Data View" button	N/A	The app will display the Live Data View including: - Sensor 1 Description and Units - Sensor 2 Description and Units - App Logo/back button - Sensor 3 Description and Units - Sensor 4 Description and Units	The app displayed the Live Data View including: - Sensor 1 Description and Units - Sensor 2 Description and Units - App Logo/back button - Sensor 3 Description and Units - Sensor 4 Description and Units	Pass
Check the current sensors data generation	Check that the app is properly requesting/displaying vehicle data	- Pressed the "Live Data View" button	- Await the live data to update the UI with each sensor's data	N/A	The app will update the UI each time that the sensor's data is requested on a 1.5 second interval with 0.5 seconds of tolerance for system timing	The app updated the UI with each sensor's data value on an approximately 1.5 second time interval	Pass
Check Sensor 1 customization (Selection)	Check that the app swaps the desired sensor into Sensor 1 position	- On Live Data View	- Press the Sensor 1 position on the screen (Top Left) - Select the desired sensor from the Available Sensors list	N/A	- The app will show the Available Sensors sheet - Swap the selected sensor into the Sensor 1 position - Close the Available Sensors sheet - Display it's description and data	- The app showed the Available Sensors sheet - Swapped the selected sensor into the Sensor 1 position - Closed the Available Sensors sheet - Displayed it's description and data	Pass
Check Sensor 1 customization (No Selection)	Check that the app returns to previously working order when no selection is made from Available Sensors sheet	- On Live Data View	- Press the Sensor 1 position on the screen (Top Left) - Drag the Available Sensor sheet down until it disappears	N/A	- The app will show the Available Sensors sheet - Close the Available Sensors sheet - Display the current sensor's description and data	- The app showed the Available Sensors sheet - Closed the Available Sensors sheet - Displayed the current sensor's description and data	Pass
Check Sensor 2 customization (Selection)	Check that the app swaps the desired sensor into Sensor 2 position	- On Live Data View	- Press the Sensor 2 position on the screen (Top Right) - Select the desired sensor from the Available Sensors list	N/A	- The app will show the Available Sensors sheet - Swap the selected sensor into the Sensor 2 position - Close the Available Sensors sheet - Display it's description and data	- The app showed the Available Sensors sheet - Swapped the selected sensor into the Sensor 2 position - Closed the Available Sensors sheet - Displayed it's description and data	Pass
Check Sensor 2 customization (No Selection)	Check that the app returns to previously working order when no selection is made from Available Sensors sheet	- On Live Data View	- Press the Sensor 2 position on the screen (Top Right) - Drag the Available Sensor sheet down until it disappears	N/A	- The app will show the Available Sensors sheet - Close the Available Sensors sheet - Display the current sensor's description and data	- The app showed the Available Sensors sheet - Closed the Available Sensors sheet - Displayed the current sensor's description and data	Pass
Check Sensor 3 customization (Selection)	Check that the app swaps the desired sensor into Sensor 3 position	- On Live Data View	- Press the Sensor 3 position on the screen (Bottom Left) - Select the desired sensor from the Available Sensors list	N/A	- The app will show the Available Sensors sheet - Swap the selected sensor into the Sensor 3 position - Close the Available Sensors sheet - Display it's description and data	- The app showed the Available Sensors sheet - Swapped the selected sensor into the Sensor 3 position - Closed the Available Sensors sheet - Displayed it's description and data	Pass
Check Sensor 3 customization (No Selection)	Check that the app returns to previously working order when no selection is made from Available Sensors sheet	- On Live Data View	- Press the Sensor 3 position on the screen (Bottom Left) - Drag the Available Sensor sheet down until it disappears	N/A	- The app will show the Available Sensors sheet - Close the Available Sensors sheet - Display the current sensor's description and data	- The app showed the Available Sensors sheet - Closed the Available Sensors sheet - Displayed the current sensor's description and data	Pass
Check Sensor 4 customization (Selection)	Check that the app swaps the desired sensor into Sensor 4 position	- On Live Data View	- Press the Sensor 4 position on the screen (Bottom Right) - Select the desired sensor from the Available Sensors list	N/A	- The app will show the Available Sensors sheet - Swap the selected sensor into the Sensor 4 position - Close the Available Sensors sheet - Display it's description and data	- The app showed the Available Sensors sheet - Swapped the selected sensor into the Sensor 4 position - Closed the Available Sensors sheet - Displayed it's description and data	Pass
Check Sensor 4 customization (No Selection)	Check that the app returns to previously working order when no selection is made from Available Sensors sheet	- On Live Data View	- Press the Sensor 4 position on the screen (Bottom Right) - Drag the Available Sensor sheet down until it disappears	N/A	- The app will show the Available Sensors sheet - Close the Available Sensors sheet - Display the current sensor's description and data	- The app showed the Available Sensors sheet - Closed the Available Sensors sheet - Displayed the current sensor's description and data	Pass
Check "Back" button functionality	Check that the app goes back to the connected home view	- On Live Data View	- Press and hold the App Logo/Back button	N/A	The app will stop data transmission and go back to the connected home view	The app stopped data transmission and went back to the connected home view	Pass
Check app disconnect/termination	Check that the app disconnects from the Bluetooth peripheral and terminates the app returning to the phone's homescreen	- The app is running on the phone and connected to the Bluetooth peripheral	- Typical iPhone app closure (Swipe up from bar on bottom)	N/A	The app will disconnect from the Bluetooth peripheral and terminate. Returning the user to the phone's homescreen.	The app disconnected from the Bluetooth peripheral and terminated. Returning the user to the phone's homescreen.	Pass
Check app termination	Check that the app terminates when it is not connected to a Bluetooth peripheral	- The app is running on the phone	- Typical iPhone app closure (Swipe up from bar on bottom)	N/A	The app will terminate, returning the user to the phone's homescreen	The app terminated, returning the user to the phone's homescreen	Pass