# 🚗 Parked Car Locator (Boater‑Aid Blue Edition)

Purpose:  
A Progressive Web App (PWA) that helps you remember where you parked your car — with GPS coordinates, compass bearing, map, note, photo, and parking‑timer reminder. Designed for offline use and installable directly from your browser.

## 🔧 Features

* Live GPS tracking (update or re‑center your current position)
* Park Here to save location, note, and optional photo
* Distance + Compass showing direction to your parked car
* Parking Timer with alert when time expires
* Offline support via service worker caching
* Share & Route buttons for Google Maps navigation
* Boater‑Aid blue icon + dark navy theme

## 📱 How to Install on Android (Samsung S24 or similar)

1. Open Chrome and navigate to your hosted file, e.g. https://boater‑aid.com/parkedcar/index\_pwa.html  
2. Tap the ⋮ menu → Add to Home screen  
3. Choose Install app when prompted.  
4. The app appears on your home screen with its blue car‑pin icon.  
5. Grant Location and Motion/Compass permissions when asked.  
6. Use Update My Position first, then Park Here to save your spot.  
  
💡 This installs as a “web app” inside Chrome. It will not appear under Settings → Apps unless converted to a native APK.

## 💻 Optional: Use on Desktop

Open the same page in Chrome or Edge.  
Click the Install icon (computer + down‑arrow in the address bar).  
Launch it later from your desktop or start menu.

## 🧱 Advanced Option: Make it a True Android App (APK)

If you want it listed in Android’s “Apps” list:

1. Install Node.js and Java JDK.  
2. Run the following commands:  
npm install -g @bubblewrap/cli  
bubblewrap init --manifest=https://boater‑aid.com/parkedcar/index\_pwa.html  
bubblewrap build  
adb install app‑release.apk  
3. The app will now appear in Settings → Apps like a normal Play‑Store app.

## ⚠️ Troubleshooting

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| --- | --- |
| Issue | Fix |
| User denied geolocation | In Chrome → tap the ⓘ icon → Permissions → Allow Location, then reload |
| Compass not moving | Allow Motion sensors in Chrome site settings |
| Map tiles not loading offline | The map requires internet, but GPS + compass still work offline |
| Timer doesn’t alert | Keep Chrome notifications allowed for this web app |

## 🧾 Version Info

App: Parked Car Locator PWA  
Theme: Boater‑Aid Blue (#1462FF / #0B1220)  
Author: Glen Carruthers  
Version: 1.0 PWA (October 2025)