

# NavX

## GPS • User Manual

Version 2.0.58

ProXXi • navx.co.za

Welcome to your NavX. This guide covers what everything does and where to find it. Each section is short, so you can jump straight to what you need.

# 1. The buttons

The NavX has five front buttons plus a power key on the case.

| Button | On the map | In a menu |
|---|---|---|
| **UP** | Zoom in (more detail) | Move up |
| **DOWN** | Zoom out (wider view) | Move down |
| **CENTER** | Open the menu | Select / change the highlighted item |
| **AUX1** (right side) | Show the **Info page** (all your numbers, large). Press again to go back | **Back** one level. Also cancels a question, or a value you're changing, without saving |
| **AUX2** (left side) | Open the **Brightness pop-up** (see section 6) | **Close** the menu and go straight back to the map |
| **Power key** | Asks "Switch the unit off?". **CENTER** = off, any other button = cancel | Same |

**Tip:** every menu has a **Back** row at the top and bottom, but **AUX1** (back) and **AUX2** (close) are quicker with gloves. Menus close by themselves if you leave them alone.

## Typing names (the touch keyboard)

A keyboard appears when you name a waypoint, a caution or a ride, or type a WiFi password. Tap the letters on the screen, or use the buttons:

- **CENTER** = OK. Leave the name blank and the unit picks one for you.
- **AUX1** or **AUX2** = cancel.
- Leave it alone for **30 seconds** and it closes by itself: a waypoint or caution is still marked (with what you typed, or an automatic name); a rename or password is cancelled.

# 2. Switching on and off

- **On:** press the power key. If the unit is plugged into bike power or a charger, any front button also switches it on.
- **Off:** press the power key, then **CENTER** to confirm. If you're recording, the ride is saved first.
- **Where was I?** At switch-on the map opens where you last stopped, and the GPS uses that spot to find satellites faster. Your arrow appears once the GPS has a position it trusts.
- **Charging while off:** plug it in and the charging screen comes on by itself, showing the battery level. After 30 seconds the light goes off but it keeps charging; pick the unit up or press a button to see the screen again. Press a button while the screen is lit to switch on, or leave it to charge.

### Sleep and auto-off

- After **3 minutes** with no movement and no button presses, the screen goes to sleep to save battery.
- It wakes the moment you move the bike or press a button. The GPS stays ready, so you're back on the map almost instantly.
- After **15 minutes** asleep, the unit switches itself off.
- **While recording, the unit never sleeps or switches off.**

# 3. The map screen

| What you see | What it means |
|---|---|
| **Arrow** | You. It turns grey when the GPS isn't sure where you are. Right after switch-on there's no arrow until the GPS has a position it trusts |
| **Coloured line** | The track you're following. The part you've ridden turns grey |
| **Chevrons (>>)** on the line | The direction to ride the track |
| **Scale bar** | The distance from your arrow to the top of the map |
| **Data strip** | Speed, distance, time and more (set it up under **Settings › Appearance**) |
| **Battery icon** (bottom right) | Battery level. A lightning bolt means it's on bike power or charging |
| **Altitude** | Shown only when the GPS height is reliable. Otherwise you'll see **---** |

### Warnings you may see

| Warning | What to do |
|---|---|
| **Awaiting GPS Signal** (red, top) | Give it open sky for a minute or two |
| **GPS Connected** (green, top) | The GPS has found you. It disappears by itself |
| **Red bar at the top** (e.g. **STORAGE ISSUE**, **NO GPS**, **NO MOTION SENSOR**) | Part of the unit isn't working. Switch off and on again. If it stays, contact support |
| **GPS QUALITY LOW** | The position may be off (trees, gorges, buildings). Ride on carefully |
| **TO START 2.3 km** (dark bar with an arrow) | You've picked a track but haven't reached it yet. The arrow points to the start. It goes away once you're on the line |
| **OFF ROUTE** (with an arrow) | You've left the track. The arrow points back to the line a little ahead of you, so you aren't sent backwards |
| **WRONG WAY** | You're riding a stage backwards (event stages only). On a loop stage it starts working once you've ridden a short way along it |
| **BEHIND TIMEBAR** | You're behind the "finish by" time you set (see Timebar, section 5) |
| **Caution** (yellow) | A hazard ahead. Any button clears it |

| Warning | What to do |
|---|---|
| **Danger** (red) | A serious hazard ahead. It can't be cleared, so ride with care |
| **Finish distance / RIDE COMPLETE** | You've reached the end of the track. The page shows your time, average speed and distance. If the event has another stage, **CENTER** starts the next stage straight away. Any other button closes it |
| **Low battery** | Below 25 %. The screen dims to save power. Get it on charge or bike power |

### Night mode

The screen switches to dark colours by itself after sunset and back to light at sunrise. It works this out from where you are and the time of day, so there's nothing to set.

# 4. The main menu (press CENTER on the map)

What you see depends on what you're doing:

- **Riding freely** → the **Home** menu
- **Recording** → the **Recording** menu
- **Following a track** → the **Following** menu

### Home menu

| Item | What it does |
|---|---|
| **NAVIGATE** | Pick a track to ride, manage your files, share maps |
| **RECORD** | Start recording a new ride |
| **CONNECT** | Link to the NavX phone app |
| **SETTINGS** | All settings |
| **EXIT PREVIEW** | Shown only while you're previewing a track. Returns to the normal map |

# 5. Riding a track

## Navigate menu – Home › NAVIGATE

| Item | What it does |
|---|---|
| **Select Track & Ride** | Your tracks and event stages, newest first. Pick one to start following it |
| **File Manager** | The same list, with more options per track (below) |
| **Share map** | Send tracks to another NavX nearby |
| **Receive map** | Get tracks from another NavX nearby |

## File Manager options (pick a track)

| Option | What it does |
|---|---|
| **View on map** | Preview the track without following it |
| **Start Ride** | Follow this track |
| **Rename** | Give a recorded ride a new name (event stages keep their names) |
| **Delete** | Remove it from the unit. Deleting a stage removes the **whole event** |

## Following menu (press CENTER while following a track)

| Item | What it does |
|---|---|
| **Add / Edit Timebar** | Set a "finish by" time. The unit then tells you if you're ahead or behind pace |
| **Next Stage** | Jump to the next stage of an event |
| **Stages** | The list of all stages in the event. The current one is marked **NOW** |
| **Stop Navigating** | Stop following and return to free riding. It asks you to confirm first, so a stray press can't drop your track |
| **Change Track** | Pick a different track |
| **Settings** | All settings |
| **Share map / Receive map** | As in the Navigate menu |

**Switched off mid-track?** When you switch on again, the unit picks up the same track (or stage) where you left it and shows "Following …". It doesn't do this after RIDE COMPLETE or once you've chosen Stop Navigating.

### Sharing maps with a friend

1. **On your friend's NavX:** Navigate › **Receive map**. Leave that screen open.
2. **On your NavX:** Navigate › **Share map** › tick the maps › **SEND**.
3. Tick your friend's unit › **SEND NOW**. A progress screen shows the transfer.

# 6. Brightness

## Quick adjust: the AUX2 pop-up

Press **AUX2** on the map and a small brightness box appears.

- **Manual brightness: UP** / **DOWN** makes the screen brighter or dimmer. With Boost on (below), the top step shows **100% BOOST**.
- **Auto brightness:** the box shows the offset, from -5 to +5 with 0 in the middle. **DOWN** = dimmer, **UP** = brighter.
- **CENTER** = OK. The box also closes by itself after a few seconds. Your choice is saved.

## How Auto brightness works

The screen is **transflective**: it reflects sunlight, so in bright sun it needs very little backlight. Auto uses the light sensor to:

- **dim the backlight in sunlight**, which saves battery without making the screen harder to read;
- **brighten it in shade, under trees and at dusk.**

On bike power it runs a little brighter, because the battery isn't being used. At night it's capped so it doesn't dazzle you.

## Where brightness lives in the menus

- **Settings › Backlight:** the same adjustment as the AUX2 pop-up.
- **Settings › Display › Auto Brightness:** Auto on or off. If off, you set the level yourself.
- **Settings › Display › Max Bright: Normal** or **Boost** (see section 8).

# 7. Recording a ride

1. Home › **RECORD** › **Start**. A new ride file is created.
2. Ride! **Press CENTER** any time for the Recording menu:

| Item | What it does |
|---|---|
| **Add Waypoint** | Mark a point of interest (you can type a name, or leave it blank) |
| **Add Caution** | Mark a hazard (yellow) |
| **Add Danger** | Mark a serious hazard (red). Marked instantly, no typing |
| **Stop Recording** | Stop and save the ride. You can then rename it |
| **Settings** | All settings |

- **Power cut mid-ride?** No problem: recording carries on when the unit comes back on ("Recording Continuing").
- **Every ride is kept**, even when you don't press RECORD. The unit keeps a log of each ride and sends it through the phone app or WiFi, so your rides show up in your ride history.

# 8. Settings – Home › SETTINGS

| Item | What it does |
|---|---|
| **Backlight** | Brightness. Auto shows the offset, Manual shows the level. **CENTER** steps through it |
| **Display** | How the map behaves (below) |
| **Appearance** | How things look (below) |
| **System** | Time zone, phones, updates, support (below) |
| **Connect to WiFi** | Join a WiFi network for updates and syncing (see section 11) |
| **Update Available!** | Shown only when there's new software. Tap to install |

## Settings › Display

Most items open their own page with an explanation. Press **CENTER** there to change the value.

| Item | Choices | What it does |
|---|---|---|
| **Auto Brightness** | On / Off | Lets the light sensor set the brightness (only shown if the unit has a light sensor) |
| **Max Bright** | Normal / Boost | **Normal:** up to 80 %, easy on the battery. **Boost:** brighter everywhere, but on battery it costs about 15 % of your ride time |
| **Off Route** | Relaxed / Normal / Aggressive | How far off the track before you're warned. Relaxed 75 m, Normal 38 m, Aggressive 19 m (good for tight singletrack) |
| **Wrong Way** | On / Off | Warns when you ride an event stage backwards. Loop stages too, once you've ridden a short way along them |
| **Bar Swing** | Snappy / Normal / Calm | How much the map turns with your handlebars at slow speed. **Calm** suits tight, technical riding |
| **Auto-Zoom** | On / Off | Zooms out as you speed up and in as you slow down. Stopped for 10 s, it zooms right in. Zooming by hand pauses it for a minute. **Auto-Zoom Tuning** (shown when it's on) sets the speed for each zoom level |
| **Carry Outage** | Yes / No | If the GPS drops out while you follow a track (tunnel, gorge, thick trees), the grey dot keeps moving along the route for up to 15 s |
| **Line Lock** | Off / 10 / 15 / 20 m | When you're this close to the track and riding along it, the arrow is drawn **on** the line, so GPS wander doesn't show you beside the trail |

## Settings › Appearance

| Item | What it does |
|---|---|
| **Text Size** | Normal, Large or Extra large, for the strip and menus |
| **Strip** | Where the data strip sits: **Left**, **Bottom** or **Off** |
| **Strip Set** | Which numbers the strip shows (table below) |
| **Arrow Size / Arrow Colour** | Your arrow on the map |
| **Track Width / Track Colour** | The line of the track you follow (3–5 px) |
| **Scale / Scale Colour / Scale Text** | Show or hide the scale bar, and its colour and text size |

**Strip Sets:**

| Set | Shows |
|---|---|
| **Basic** | Time, speed and average in one row of big numbers (the default) |
| **Navigation** | Speed, distance to next point, average, time, battery, heading, satellites, recording |
| **Race** | Speed, distance, recording, time, average, trip, battery, satellites |
| **Touring** | Speed, trip, time, average, max speed, odometer, battery, heading |

### Settings › System

| Item | What it does |
|---|---|
| **Update available** | Shown only when there's new software |
| **Trusted phones** | Phones you've allowed before connect without being asked again (up to 5). Pick one to forget it |
| **Time Zone** | Your local time (GMT+2 in South Africa) |
| **Track detail** | How much detail is kept when a new track is loaded. If unsure, leave it, or ask support |
| **Diagnostics** | For troubleshooting with support (see section 13) |
| **Support access** | **YES** lets the unit's logs be sent to ProXXi support when you sync |
| **Send support log** | Sends the logs now (useful when support asks for them) |
| **GPS Settle** | After switching on, how long the GPS must be steady before the map trusts it. Default 10 s |
| **Check for Updates** | Connects and checks for new software |
| **Unlink Device** | Shown only when the unit is on your account. See **Your NavX account** (section 10) |
| **About** | Your device name and unit ID (support will ask for these), rider details and live status |

# 9. The NavX phone app – Home › CONNECT

Use the phone app to load tracks and events, get your rides off the unit, update the software and change settings from your phone.

1. On the NavX: Home › **CONNECT**.
2. On your phone, open **Chrome** and go to **navx.co.za**.
3. Tap **Connect device** and choose your unit (the name shown on the NavX screen).
4. The NavX asks **"Allow connection?"**. Press **CENTER** to allow.
    - Next time, that phone connects without asking (see **Trusted phones**).

- The NavX stays in Connect mode until you press **Cancel**, and a recording keeps running in the background.
- Leaving the Connect screen disconnects the phone.
- If the Bluetooth link drops, the app reconnects by itself ("Reconnecting..."). Keep the NavX on its CONNECT screen.
- **No signal at the trail?** The app collects your rides and logs from the unit anyway and keeps them on the phone. They upload by themselves once the phone has signal. The app shows how many are waiting.
- Each time you connect, the app also gives the unit the time and fresh GPS data, so it finds satellites faster, even if you never use WiFi.

# 10. Your NavX account

An account lets you see your rides, tracks and logs on your phone any time, even when your NavX isn't with you.

## Creating an account

- **First time you connect:** on the rider details form, tick **Create account** above Save and choose a password. Your contact (cell) number is your login.
- **Or from the start page:** tap **Login / Register**, fill in your details, then connect your NavX straight away to link it to your account.
- The installed app keeps you logged in.

## GPS Manager

Once you're logged in, the start page shows **GPS Manager** instead of Login / Register. Pick your NavX to see:

- **Rides:** your ride reports, with a **Download GPX** button.
- **Tracks:** the tracks that were on the unit when it last connected.
- **Logs:** the support logs the unit has sent.

Sending tracks to the unit, or getting files off it, needs the NavX connected ("Connect GPS to upload and download").

## Your profile

Tap your initials (top right) to change your details or password, see your units, log out or delete your account. Deleting your account removes your login; your units' rides and logs stay on file.

**Forgot your password?** Connect your NavX, then go to **Login / Register › Forgot your password?**. Having the unit proves the account is yours.

## Unlink Device (on the NavX)

**Settings › System › Unlink Device** (above About) takes the unit off your account, for example before you sell it. You'll see "You are about to unlink your account":

| Option | What happens |
|---|---|
| **Unlink + Delete everything** | The unit wipes your rides, tracks, logs, rider details, trusted phones, saved WiFi and settings (the maps stay). Your rides and logs for this unit are deleted from the server too |
| **Unlink + Keep everything** | The unit keeps its data. Your account keeps what was recorded up to now |
| **Cancel** | Nothing changes (the default) |

The server is told the next time the unit connects, by WiFi or through the phone app.

# 11. WiFi – Settings › Connect to WiFi

| Item | What it does |
|---|---|
| **Connect to WiFi** | Scans for networks. Pick one and type its password on the touch keyboard |
| **Saved** | Up to 5 saved networks. Pick one to **Connect now**, **Change password** or **Forget** it |
| **Turn WiFi off** | Disconnects |

Once connected, the unit checks for software updates, refreshes its GPS data so it finds satellites faster, and sends your rides and logs. You'll see each step's progress on screen.

# 12. Software updates

- When an update is ready, **Settings › Update Available!** appears.
- You can update **over WiFi** (the unit downloads it) or **through the phone app** (over Bluetooth).
- Stop recording and navigating first, and keep the unit switched on until it restarts.
- If anything goes wrong, the unit automatically keeps the previous software.

# 13. Troubleshooting

| Problem | Try this |
|---|---|
| No GPS / "Awaiting GPS Signal" | Get open sky and wait a minute. Connecting to the phone app or WiFi now and then speeds up finding satellites |
| Map is blank | Your maps may not be loaded. Contact support |
| "Storage issue" | Switch off and on again. If it stays, contact support |
| Screen too dim / too bright | Press **AUX2** and adjust, or try **Max Bright › Boost** |
| Phone won't connect | Make sure the NavX shows the CONNECT screen, and use Chrome on your phone |
| Unit seems stuck | Press the power key, confirm with CENTER, then switch on again. Give it a short press; holding it down does not switch the unit off |

**Diagnostics** (Settings › System › Diagnostics) is for working through a problem with support. Its last two items erase data:

- **Format storage** erases all rides, events and maps on the unit.
- **Reset Settings** puts every setting back to default.

Don't use either unless support asks you to.

## Contacting support

Go to **Settings › System › About** and give support the **device name** and **unit ID** shown there. If they ask for logs, use **Send support log**.

*Ride safe, and always keep your eyes on the trail.*