

V O L V O

# Pure Electric Volvo Quick Guide



# Congratulations on your new Pure Electric Volvo!

This Quick Guide is designed to help familiarize you with your vehicle's key systems, features, and operation. Please refer to your Digital Owner's Manual for complete information.



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# 1. Important To Know

## No Electrical

Keep in mind that if there is no electrical current to the vehicle – i.e. the ignition is switched off or the start battery is discharged – certain functions such as power brakes, power steering, etc. will be limited.

## Exterior Engine Noise

### **WARNING**

Remember that a battery electric vehicle does not emit any engine noise. It is powered only by quiet electric motors, and may be difficult to notice by children, pedestrians, cyclists, and animals. This is especially true at low speeds, such as in parking areas.

## High-Voltage Current

### **WARNING**

Several components in the car work with high-voltage current that could be dangerous in the event of incorrect intervention. High-voltage operating components and orange-colored cables should only be handled by qualified (Volvo) technicians.

Follow the instructions in your Digital Owner's Manual.

## Battery Depletion

### **WARNING**

**Volvo strongly recommends not letting the battery deplete to 0%.**

Below 20% state of charge you will receive warnings, with guidance to charging stations.





## 2. Getting ready for your new Pure Electric Volvo

### Preparing Your Home for Charging of the Vehicle's High-Voltage Battery

*At-home fast-charging capability is an important aspect of electric vehicle ownership.*



- Your Volvo will come standard with a dual mode Level 2 charging cable approximately 14 feet in length (4.5 meters), capable of 240-volt. The cable is supplied with an adapter to enable both Level 1 and Level 2 charging.

#### Important to know:

1. Due to slow charging speed, Volvo does not recommend Level 1 home charging as your predominant method of charging. You can set the charging speed of your XC40 Recharge within the Charging section in your center screen. For AC charging, the default charge speed is set to 6 amps and this can be increased up to 48 amps. Ensure that your set vehicle charging rate does not exceed the amperage of the household circuit being used, to avoid tripping the circuit breaker.
2. NOTE: The charging port on your Pure Electric Volvo is located behind the rear wheel on the driver's side. Make sure your home charging station is installed in a location where the cable will reach this section of the vehicle.



## 2. Getting ready for your new Pure Electric Volvo

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### Home Charging

- Fast and efficient charging can be achieved with the ChargePoint Home Flex. This 240-volt Level 2 home charger provides up to 50 amps to charge your Volvo. More information can be found at [www.chargepoint.com/volvo/](http://www.chargepoint.com/volvo/)
- **This charger provides smart connectivity and, with overnight charging, will help ensure you start every day with a full charge.**
- We strongly recommend professional installation of home-charging technology. Volvo has partnered with Qmerit for at-home installation. Qmerit has a network of electricians and offers a convenient estimator tool to get started, at [ev.qmerit.com/volvo/search](http://ev.qmerit.com/volvo/search)

## 2. Getting ready for your new Pure Electric Volvo

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### Public Charging

*ChargePoint is an official vehicle-charging partner in North America. With an active ChargePoint account, you can pay for charging at over 90% of public stations.*

- A ChargePoint Welcome Kit is provided with your vehicle. Please take the time to review its contents.
- To set up your ChargePoint account, please visit **[www.chargepoint.com/drivers/](http://www.chargepoint.com/drivers/)**
- With your active ChargePoint account and credit card information stored, you have several payment methods, including:
  - The RFID card, which is included in your vehicle Welcome Kit.
  - The ChargePoint mobile app, which is available for both iOS and Android.
  - The in-car app - available in the Google Play Store - which allows for touchless pay right from your driver's seat.



### How to begin a public charging session:

1. Once in Park, tap your card or phone on the ChargePoint station, or hit the “Start Charge” button on your mobile app or on your car’s center screen. This will unlock the charging connector so you can remove it from the charging station.
2. Plug the connector into your Pure Electric Volvo to start charging.

## 2. Getting ready for your new Pure Electric Volvo

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### **An Active Google Account Will Enable Access to Key Features**

- For the most personalized experience in your new Pure Electric Volvo, we recommend you set up a Google account, if you don't already have one.
- An active Google account enables built-in features like Google Assistant, Google Maps, and Google Play.
- When taking delivery of your car, make sure you have your Google account information readily available, together with your smartphone.







### 3. When you take delivery of your Volvo

#### Shifter, Parking Brake, and Front Trunk Storage

Consult your Digital Owner's Manual for comprehensive instructions on operating controls and systems.



- **Shifter and Parking Brake:** To select **R**everse, push the shifter forward once. To select **D**rive, pull the shifter rearward once. Selecting **P**ark automatically sets the parking brake. Selecting **D**rive or **R**everse automatically releases the parking brake.



### 3. When you take delivery of your Volvo



*Features depicted may not be standard or available. European specifications may be shown.*

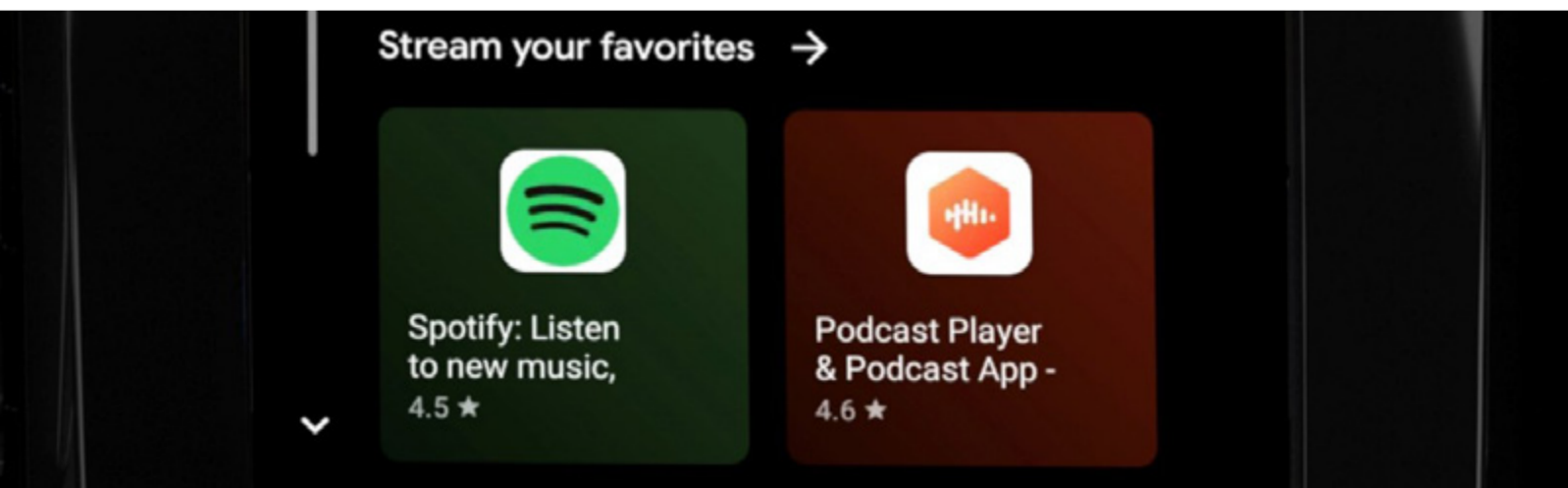
- **Front Trunk:** This weather-sealed, ventilated storage area is where you will find the tire repair kit. To open the front trunk, pull the lever on the left side of the driver's footwell, then release the yellow tab above the driver's side headlight.

### 3. When you take delivery of your Volvo

#### Signing In with Google



- Pull down the tab at the top of the center display (as shown in above image)
- Select add profile
- Select language
- Review and accept Google terms and conditions.
- Sign in to your Google account. You are able to select one of three ways:
  - Sign in with your Google email address and password on the center display.
  - Sign in with your Android phone.
  - Sign in with your iPhone.
- For any of the selected options, simply follow the prompts on screen and on your mobile device. A confirmation message will appear once you are successfully signed in with Google. Now you can start personalizing your experience.
- A short tutorial on Google Assistant is available, and you are able to turn on personal results for access to your calendar and contacts.



- In the Google Play Store, you have access to downloadable in-car apps like Spotify,<sup>®</sup> Pandora,<sup>®</sup> TuneIn,<sup>®</sup> and ChargePoint. In addition to apps in the Google Play Store, FM radio is available, and you can enjoy music or podcasts via Bluetooth from your phone.



### 3. When you take delivery of your Volvo

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#### **Interacting with the Google Infotainment Interface**

*Interacting with the integrated Google services is as easy and familiar as using your smartphone.*



- Google Assistant supports natural speech. Simply say “Hey Google” or “OK Google” and state your command, from navigation to just about anything that can be answered by the internet.
- Google can also control some in-car features, such as climate settings and heated seats and steering wheel.
- Built-in Google Maps provides real-time traffic and public charging information, and it can estimate your remaining state of charge before you set out. Simply set your desired destination in Google Maps and the system will show you the predicted battery charge level upon arrival.
- Signing into your own Google account provides a personalized experience, such as directions to work or home, as well as access to your recent search history in Google Maps from your other signed-in devices. This makes trip planning very easy. The system will still function without being signed in with Google.

### 3. When you take delivery of your Volvo

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#### **Pairing a Phone**

1. First, activate Bluetooth on your phone, and verify in the phone's settings that the phone is visible to other devices.
2. On the home screen:
  - Click on the "Connect Your Phone" tile. The following message will appear: "To make or receive calls, pair your phone with the vehicle. Make sure that Bluetooth is enabled on your device."
  - Tap the "Connect" button.
  - Tap the name of the phone you would like to connect.
  - Make sure the code displayed in the vehicle matches the one in the phone and confirm.
  - Tap "Done."

### 3. When you take delivery of your Volvo

#### Interacting with the Digital Driver Display

The 12.3" Digital Driver Display is located in front of the driver, directly behind the steering wheel.



- The Digital Driver Display is where you can view information related to your **vehicle's state-of-charge** – in terms of percentage charged, rate of charge, and time to completion.
- When your vehicle is in Park, and connected to a charger, the Digital Driver Display shows a wealth of information about the state, and rate, of battery charging of your vehicle.
- There are 3 visual options for the Digital Driver Display to select from. To change the display mode, press the lower toggle button on the right side of the steering wheel, just below voice control.



- **Calm Mode** shows only the most necessary information (e.g., state of charge) so you can relax and focus on your drive.



### 3. When you take delivery of your Volvo



- **Navi Mode** provides large navigation information from Google Maps for quick reference.



- **Car Centric Mode** gives you the greatest amount of information on the vehicle systems and their statuses.



### 3. When you take delivery of your Volvo

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#### Charging Basics

*It is important to know how to use both at-home and public charging systems, and to understand the ways your vehicle can “assist” in the charging process.*



- In “Settings,” selecting the maximum charging rate of 48 amps will ensure the fastest charging with all types of chargers.
- The standard cable that comes with the vehicle allows your Volvo to be plugged into both 110V and 240V home outlets, though 240V is recommended as it can fully recharge the car overnight (e.g. approx. 8 hours). A 110V volt outlet does not carry sufficient current to provide a viable solution for everyday charging. Due to significantly longer charging times, it should be used only in emergencies, or to “top up.”
- Charging speed can be set in your center display. To adjust the charging amp limit, click the gear icon on the center touchscreen > select Charging > press the plus or minus sign to change the amperage limit for charging. Set it to 48 amps for best charging speed, if it’s not already. If you plug it into a lower amperage circuit, e.g., a 110-volt 15 amp circuit, the car will lower the charging speed based on the amperage available.
- You can view the car’s charging speed in the instrument cluster, when parked and plugged in.
- Your Volvo is compatible with most public chargers. It can be charged on AC (Level 2) chargers as well as DC fast chargers. AC charging delivers a lower speed of charge, up to 11 kWh, while on DC it can accept a charge up to 150 kWh. AC is most common at home, work, or in shopping centers, while DC is typically found on interstate routes.



### 3. When you take delivery of your Volvo

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*European specification shown*

- With AC charging, there's no need to adjust the charging limit. Leave it at 48 amps.
- With DC charging, the onboard charger in the car will handle the power load for you, regardless of the output of the charger.
- **To charge the vehicle**, connect any J1772 AC or CCS Combo DC Fast Charger to the vehicle's charging port, located on the rear of the driver's side exterior. With DC charging, it is necessary to pull out the rubber plug in the lower charging port. Once the charger is connected to the vehicle, the charging port will begin to blink yellow as the car initializes the charging sequence. When the light on the left side of the charging port turns green, the charger is successfully connected, and the vehicle is charging. If a red light appears, a charging fault has occurred, and the plug should be removed.
- **Charging Status Lights – Adjacent to the Charging Socket Input**
  1. White – LED lamp
  2. Yellow – Waiting mode for charging to start
  3. Flashing green – Charging in process
  4. Green – Charging complete
  5. Red – Fault has occurred
  6. Blue – Scheduled charging



### 3. When you take delivery of your Volvo

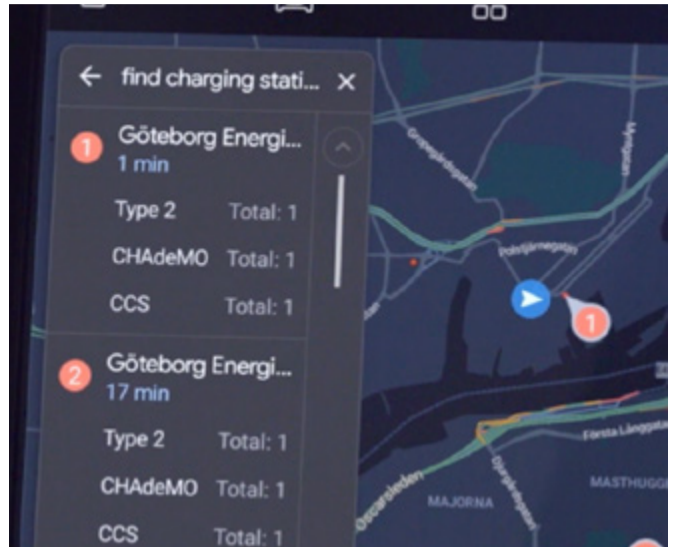
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- **The charger locks automatically into place when the vehicle is charging.** To unplug the charger, press the cable button on the upper right side of the charging port. When the light turns white, it is safe to remove the charger.
- **How to stop a charging session:** At any time, as long as you have the vehicle key, use the Unlock button adjacent to the vehicle's charging port to interrupt charging.

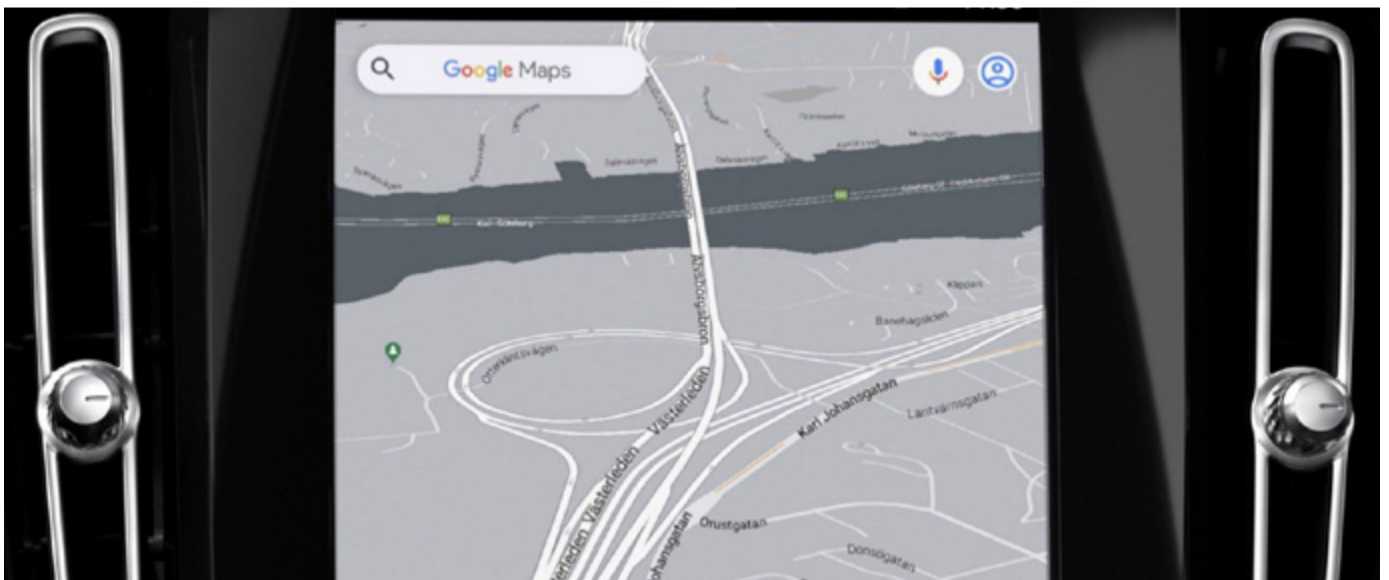
### 3. When you take delivery of your Volvo

- **“Hey, Google, find a charging station.”** Google can provide real-time information and directions to charging stations near you.
- **Long-distance route planning is easy.** On a long journey, or driving around town, Google can do the work for you. If you enter a destination that is beyond the car’s range, Google will automatically build charging stations into the route, so there is no guesswork.



*Features depicted may not be standard or available. European specifications may be shown.*

- The **ChargePoint in-car app** makes public charging even easier. From the Google Play Store, download the ChargePoint app and sync it to your account. Your car will recognize when you need a charge and display a nearby station. Simply follow the prompts to initiate charging from within the car. Unlock the station and start charging – your car will communicate with the station and administer the payment for you.



- With your ChargePoint account, you can handle payment for ChargePoint-branded chargers, as well as their partner networks, including EVGo and Flo. For stations not on the ChargePoint network, simply follow payment instructions provided on the station. Please be aware that out-of-network fees may be incurred.
- Please see [Section 4](#) of this Quick Guide for information on charging rates and times.

### 3. When you take delivery of your Volvo

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#### **Preconditioning the vehicle prior to driving**

- **“Preconditioning”** can be used to cool or warm the vehicle’s interior prior to driving, while the vehicle is connected to a charger.
- Preconditioning helps to save battery energy that would otherwise be used to cool or warm your cabin at the start of a drive.
- You can activate Preconditioning, or program it for a desired start time in “Settings” (see below).
- **Adding a Time Setting** (can manage up to 8 time settings):
  1. Open the climate view in the center display.
  2. Select the “Parking” tab.
  3. Tap on “Schedule.”
  4. Select “Add new timer.”
  5. Tap on “Date” to set the time for a single date; tap on “Days” to set the time for one or more days of the week.
  6. Set the time when the preconditioning should be finished by scrolling through the arrows.
  7. Tap on “Confirm”; the time setting is added to the list and activated.



### 3. When you take delivery of your Volvo

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#### Starting and Driving

*Your Pure Electric Volvo is always ready to go, so there is no start/stop button.*

- **To start** the vehicle, sit in the driver's seat, put on your seatbelt, place your foot on the brake, and select Drive.
- **To stop**, simply put the vehicle in Park and exit – it will automatically turn off.
- **In vehicles driven by multiple drivers** (for whom Driver Profiles have been set up), it is important to remember to override the “default” profile, if necessary, prior to driving while the vehicle is stationary. See your Digital Owner's Manual for Driver Profiles information.



### 3. When you take delivery of your Volvo

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#### **One-Pedal Drive and Regenerative Braking**

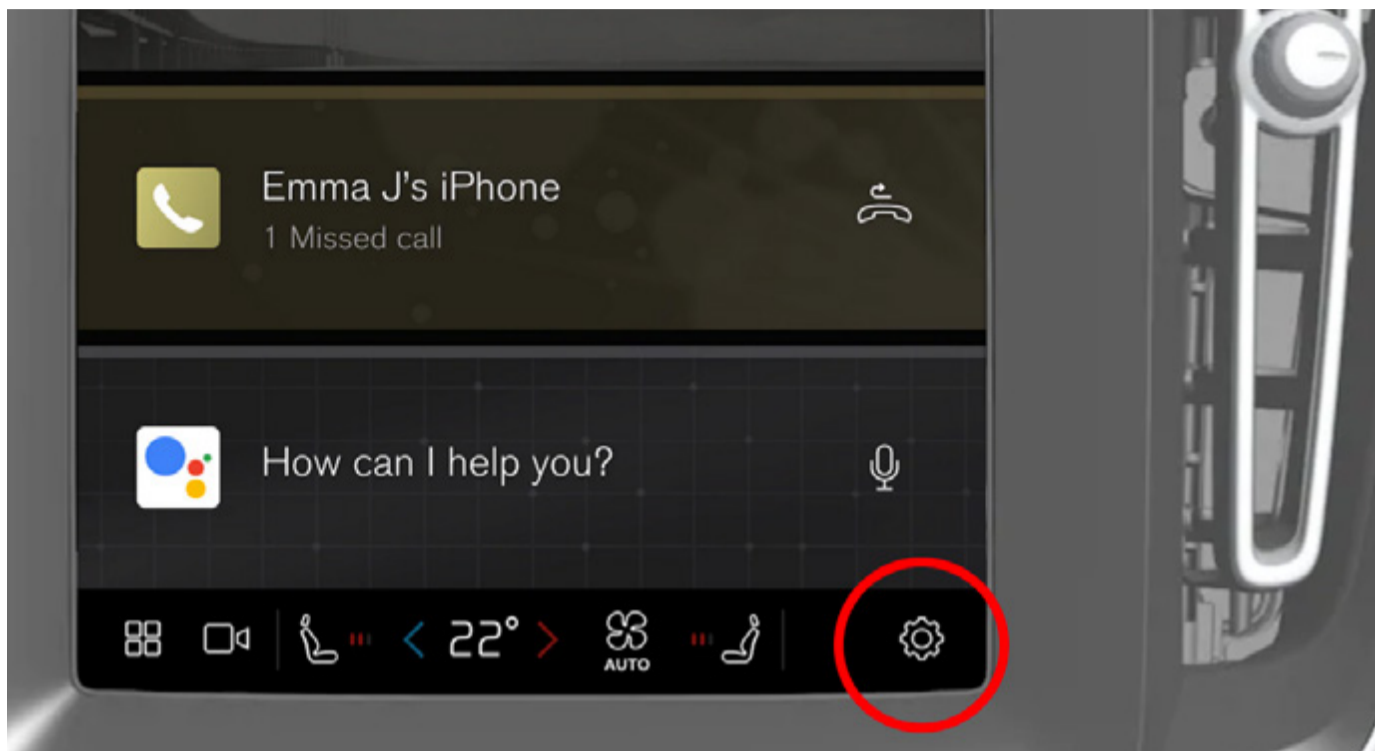
*Pure Electric Volvos come with a new mode of driving: **One-Pedal Drive**. This mode allows the vehicle to recover energy through “regenerative braking” as the throttle is released and the vehicle decelerates.*



- **Regenerative braking is a sustainable “energy conversion” technology.** When decelerating, kinetic energy that would otherwise be dissipated as heat from the brakes is, instead, converted into electricity to charge the vehicle’s high-voltage battery.
- With One-Pedal Drive engaged, the driver can still use the full power of the mechanical brakes at any time via the brake pedal.

### 3. When you take delivery of your Volvo

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- **To turn on or off One-Pedal Drive**, click the gear icon on the center touchscreen > select Driving > tap on the One-Pedal Drive toggle to engage or disengage.
- One-Pedal Drive should be turned off during open highway driving, as this will allow the vehicle to coast when the accelerator pedal is released, thereby preserving kinetic energy. During urban/suburban driving, the more frequent decelerations will enable the One-Pedal Drive technology to more effectively recapture energy to recharge the battery.
- For additional information on One-Pedal Drive, including tips on when it is most beneficial to use it, consult your Digital Owner's Manual.



## 4. After delivery

**If desired, schedule a “2nd” delivery with your Retailer to answer any questions or concerns about your Volvo.**

**Charging rates and approximate times** (*individual results may vary*)

- **The Volvo XC40 Recharge is equipped with a 78kWh battery**
  - AC (Alternating Current)
    - 110V (Level 1; standard wall outlet): up to 1 kW
    - 240V (Level 2; typical large-appliance outlet): up to 11 kW
    - Ensure that your set vehicle charging rate does not exceed the amperage of the household circuit being used, to avoid tripping the circuit breaker.
  - DC (Direct Current Fast Charger)
    - Up to 150 kW (Level 3; up to 150 times faster than Level 1 wall outlet)
  - **Approximate charging times\***
    - Level 2 – 10% to 80% ≈ 6 hours
    - 150 kW DC Fast Charger – 10% to 80% ≈ 40 minutes
- \* Volvo recommends charging to 90% for everyday use for longer battery life. For longer trips, charge to 100%.
- **Ambient temperature extremes (cold and hot), driving styles, routes, terrain, vehicle speed, and vehicle load will all affect available vehicle range.**





## 4. After delivery

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### Electrification Terms and Their Meanings

- **Volt** is electrical “pressure” and **Amp(ere)** is electrical “flow.” The “garden hose” analogy: Turning up the pressure (volt) moves more water, and having a larger diameter hose (amp) flows more water. In this analogy, water is equivalent to power.
- **kWh** – Kilowatt-Hours: amount of energy stored (comparative to a tank of gas).
- **kW** – Kilowatt: amount of electricity needed to “fill up” the battery via charger (AC or DC).
- **1kW = 1.34 horsepower** (e.g., XC40 Recharge’s combined 300 kW = 402 horsepower).
- **AC – Alternating Current** (typical household outlets, Level 1 or 2, including some charging stations) converts electric power to direct current (DC) via an On-board Charger (OBC).
- **DC – Direct Current** (built-in converter, Level 3 charging stations) feeds power directly to the car’s battery.



## 4. After delivery

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### **Roadside Assistance: 1-800-638-6586**

*Volvo Roadside Assistance is available 24/7/365 to serve you.*

- Volvo Roadside Assistance is provided as a complimentary service for the duration of your vehicle's warranty period, regardless of mileage.

**Please refer to your Digital Owner's Manual, which can be found at [volvo.custhelp.com/app/homeV3](https://volvo.custhelp.com/app/homeV3), for complete information on the operation and maintenance of your Volvo.**

**Volvo US Owner Support line is available 24/7/365:  
[1-800-458-1552](tel:1-800-458-1552)**

Some of the information in this document may not be correct due to product changes which may have occurred since it was launched. Some of the equipment described or shown may only be available in certain countries or may be available only at extra cost.

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