

**GARMIN®**

**APPROACH® G82**

Premium GPS Golf Handheld



**Owner's  
Manual**

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# Introduction

## ⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

## Device Overview



① Power button	Press to turn on the device. Press to lock or unlock the screen during a round. Hold to turn off the device.
② Radar button	Press to turn the radar on and off ( <i>Radar Training Features, page 14</i> ).
③ Touchscreen	Swipe to scroll through menus, options, and settings ( <i>Home Screen Overview, page 4</i> ). Tap to select.
④ USB port (under weather cap)	Lift the weather cap to connect a compatible USB cable to charge the device or transfer data using your computer ( <i>Charging the Device, page 28</i> ). Replace the weather cap to prevent damage to the USB port ( <i>Cleaning the USB Port, page 29</i> ).
⑤ Magnet	Place the back of the device onto the magnetic clip or a metal surface on a golf cart ( <i>Using the Magnetic Clip, page 27</i> ).

## Home Screen Overview

The home screen gives you quick access to all the features of the Approach® golf handheld.

	Select to use the radar for driving range and putting practice, and evaluate available clubs in your golf bag for distance ( <i>Radar Training Features, page 14</i> ).
	Select to find a nearby golf course and start a round of golf ( <i>Playing Golf, page 6</i> ).
	Select to set golf and system settings, connect to a rangefinder or Wi-Fi® network, and more ( <i>Settings, page 24</i> ).

## Getting Started

When using your device the first time, you should complete these tasks to set it up and get to know the basic features.

- 1 Press to turn on the device (*Device Overview, page 4*).
- 2 Tap the touchscreen to select your preferred language and answer the device prompts.
- 3 Pair your phone (*Pairing Your Phone, page 22*).  
Pairing your phone gives you access to scorecard syncing, course updates, live scoring on the Garmin Golf™ app, software updates, and more.
- 4 If necessary, create a passcode to secure your device (*Setting Your Device Passcode, page 25*).

- 5 Check for software and map updates (*Garmin Golf™ App*, page 22).  
For the best experience, you should keep the software on your device up to date. Software updates provide changes and improvements to privacy, security, and features.
- 6 Charge the device completely so that you have enough charge for a round of golf (*Charging the Device*, page 28).

## Turning On and Off the Device

The first time you use the device, you are prompted to choose a language, select a unit of measure, and set your driver distance.

Press the power button.

**NOTE:** To turn off the device, hold the power button, and select **Yes**.

## Locking and Unlocking the Touchscreen

You can lock the touchscreen while playing a round to prevent inadvertent screen touches.

- 1 Press the power button.
- 2 Press the power button again to unlock the touchscreen.

# Playing Golf

Before you can play golf, you must wait until the device acquires satellite signals, which may take 30 to 60 seconds.

**1** Select .

The device locates satellites, calculates your location, and selects a course if there is only one course nearby.

**2** If the course list appears, select a course from the list.

**3** Select a tee box.

**4** Select your scoring method and add players ([Setting the Scoring Method, page 12](#)).

**5** Select **Start**.

**TIP:** Open your Garmin Golf™ app with subscription to view the GreenZoom green contours for each hole ([Garmin Golf™ App, page 22](#)).

## Hole View

The device shows the current hole you are playing.

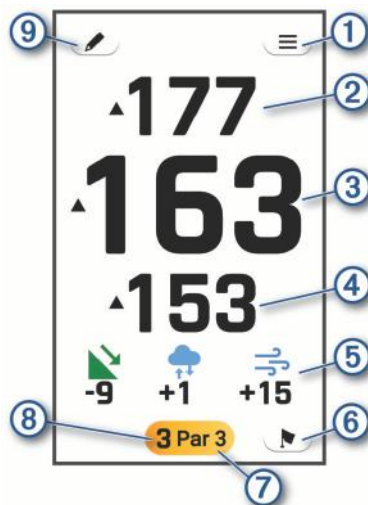


<b>1</b>	Displays the distance to the middle of the green or selected pin position. Tap a distance to the green to view the PlaysLike distance ( <a href="#">Viewing PlaysLike Distance, page 9</a> ).
<b>2</b>	Displays the distance to the back of the green.
<b>3</b>	Displays the distance to the front of the green.
<b>4</b>	Select to view and update golf options and settings ( <a href="#">Golf Menu, page 7</a> ).
<b>5</b>	Displays a map of the hole. Tap the map to measure distance with touch targeting ( <a href="#">Measuring Distance with Touch Targeting, page 8</a> ).
<b>6</b>	Select to view and update the scorecard ( <a href="#">Keeping Score, page 11</a> ).
<b>7</b>	Displays your driver distance from the tee box ( <a href="#">Settings, page 24</a> ).
<b>8</b>	Displays layup distances to the pin. The colors indicate distance in meters or yards: red is 100, white is 150, blue is 200, and yellow is 250.
<b>9</b>	Select to display a close view of the green for adjusting the pin location ( <a href="#">Viewing the Green, page 8</a> ).
<b>10</b>	Displays the par for the current hole.
<b>11</b>	Displays the current hole number. Select to change the hole number ( <a href="#">Changing Holes, page 7</a> ).
<b>12</b>	Displays the wind speed and direction ( <a href="#">Viewing the Wind Speed and Direction, page 9</a> ).

## Big Numbers Mode

You can change the size of the numbers on the hole view screen.

During a round, select  > **Settings** > **Big Numbers**.



1	Select to view and update golf options and settings ( <a href="#">Golf Menu, page 7</a> ).
2	Displays the distance to the back of the green.
3	Displays the distance to the middle of the green or selected pin position.
4	Displays the distance to the front of the green.
5	Displays the PlaysLike distance and icons when you tap a distance to the green ( <a href="#">Viewing PlaysLike Distance, page 9</a> ).
6	Select to display a close view of the green for adjusting the pin location ( <a href="#">Viewing the Green, page 8</a> ).
7	Displays the par for the current hole.
8	Displays the current hole number. Select to change the hole number ( <a href="#">Changing Holes, page 7</a> ).
9	Select to view and update the scorecard ( <a href="#">Keeping Score, page 11</a> ).

## Changing Holes

You can change holes manually from the hole view screen.

- 1 While viewing hole information, tap the current hole number.
- 2 Select a hole.

## Golf Menu

During a round, you can select  to access additional features in the golf menu.

**Virtual Caddie:** Requests a club recommendation from the virtual caddie ([Virtual Caddie, page 10](#)).

**Scorecard:** Opens the scorecard for the round ([Keeping Score, page 11](#)).

**PinPointer:** The PinPointer feature is a compass that points to the pin location when you are unable to see the green. This feature can help you line up a shot even if you are in the woods or in a deep sand trap ([Viewing the Direction to the Pin, page 9](#)).

**NOTE:** Do not use the PinPointer feature while the device is mounted to a bag or golf cart. Magnetic interference from the bag or cart can affect the accuracy of the compass.

**Wind:** Opens a pointer that shows the wind direction and speed relative to the pin ([Viewing the Wind Speed and Direction, page 9](#)).

**Measure Shot:** Allows you to measure the distance to your ball ([Measuring a Shot, page 10](#)).

**Custom Targets:** Allows you to save a location, such as an object or obstacle, for the current hole ([Saving Custom Targets, page 10](#)).

**Add Back Nine:** Allows you to add the back nine holes to play in the second half of a golf round.

**NOTE:** This setting only appears when you are playing a 9-hole course.


**Change Green:** Allows you to change the green when more than one green is available for a hole.

**Settings:** Allows you to customize the device settings and features ([Settings, page 24](#)).


**End Round:** Ends the current round ([Ending a Round, page 13](#)).

## Viewing the Green

While playing a round, you can take a closer look at the green and move the pin location.



- 1 Begin playing a round ([Playing Golf, page 6](#)).
- 2 Select .
- 3 Tap the screen, or drag the flag  to move the pin location.



As you move the flag, the front and back distance markers  adjust to the new distance measurements. The distances on the hole view screen are updated based on the new pin location. The pin location is saved for only the current round.

## Measuring Distance with Touch Targeting

While playing a round, you can use touch targeting to measure the distance to any point on the map.

- 1 Begin playing a round ([Playing Golf, page 6](#)).
- 2 Tap anywhere on the map.  
The target circle  appears on the map.
- 3 Tap the screen, or drag the target circle  to position the target.  
You can view the distance from your current position to the target circle, and from the target circle to the pin location.



4 Select **X** to return to the map of the hole.

## Viewing PlaysLike Distance

The PlaysLike distance feature accounts for elevation changes on the course, wind speed, wind direction, and air density by showing the adjusted distance to the green.

**TIP:** You can configure what data is factored into the PlaysLike adjustments in the device settings (*PlaysLike Settings*, page 24).

During a round, tap a distance to the green.

An icon appears next to each distance indicating the PlaysLike distance.

▲	Distance plays longer than expected.
■	Distance plays as expected.
▼	Distance plays shorter than expected.
↗	The difference in the distance due to elevation changes.
☁	The difference in the distance due to the air density.
↻	The difference in the distance due to the wind speed and direction.

## Viewing the Direction to the Pin

The PinPointer feature is a compass that provides directional assistance when you are unable to see the green. This feature can help you line up a shot even if you are in the woods or in a deep sand trap.

**NOTE:** Do not use the PinPointer feature while the device is mounted to a bag or golf cart. Magnetic interference from the bag or cart can affect the accuracy of the compass.

- 1 While playing a round, select **☰**.
- 2 Select **PinPointer**.  
The arrow points to the pin location.

## Viewing the Wind Speed and Direction

The wind feature is a pointer that shows the wind speed and direction relative to the pin. The wind feature requires a connection with the Garmin Golf™ app.


- 1 While playing a round, select **☰**.
- 2 Select **Wind**.



The arrow points to the wind direction relative to the pin.

**TIP:** You can also view the wind speed and direction from the wind icon on the hole view screen ([Hole View](#), page 6).


## Measuring a Shot

- 1 Take a shot, and watch where your ball lands.
  - 2 Select  > **Measure Shot** > **Start**.
  - 3 Walk or drive to your ball.
  - 4 Select **Save**.
- NOTE:** If necessary, you can select **Reset** to reset the distance.
- 5 Select your club.

Your measured shots are saved in the scorecard for the round. Sync your golf handheld to the Garmin Golf™ app to view your shots and scorecard in the app ([Garmin Golf™ App](#), page 22).

## Saving Custom Targets

While playing a round, you can save up to five custom targets for each hole. Saving a target is useful for recording objects or obstacles that are not shown on the map.

- 1 Stand near the target you want to save.
- NOTE:** You cannot save a target that is far from the currently selected hole.
- 2 From the hole information screen, select  > **Custom Targets**.
  - 3 Select a target type.
  - 4 If necessary, select **Add New** to add additional targets.

## Clearing Custom Targets

You can clear all saved targets for the current hole.

Select  > **Custom Targets** > **Clear Targets** > **OK**.

## Virtual Caddie

The Virtual Caddie feature provides club recommendations based on the hole, wind data, and your past performance with each club. You can use the radar bag mapping feature to evaluate your clubs and use the club data when playing with the Virtual Caddie feature ([Mapping Your Bag](#), page 19). Before you can use the Virtual Caddie feature, you must play five rounds, track your clubs, and upload your scorecards to the Garmin Golf™ app using your paired phone.

**TIP:** You can also use Approach® club tracking sensors with the Virtual Caddie feature.



- ① Displays the club or club combination recommendation for the hole. Select to view other club options.
- ② Displays the shot dispersion area for your next shot with the club recommendation, based on your shot history with the club.

## Enabling Tournament Mode

The tournament mode setting disables the PinPointer, PlaysLike, Virtual Caddie, and GreenZoom features. These features are not allowed during sanctioned tournaments or handicap calculation rounds.

The GreenZoom green contours feature requires a Garmin Golf™ app subscription ([Garmin Golf™ App, page 22](#)).

During a round, select **☰** > **Settings** > **Tournament Mode** > **Status** > **On**.

## Keeping Score

You can keep score for up to four players.

- 1 Begin playing a round ([Playing Golf, page 6](#)).
- 2 Select the scorecard.
- 3 Select a hole to enter the number of strokes.
- 4 Select **—** or **+** to set the score.
- 5 Select **✓** to save the score.

**NOTE:** You can select **✕** to cancel.

**TIP:** To adjust the score manually at any time during a round, select **☰** > **Scorecard**.

- 6 If necessary, select **✎** to edit the scoring settings, including each player's name, or to add or delete players.

## About the Scorecard

You can view and change each player's name and score during a round using the scorecard.



- ① Displays the hole number.
- ② Displays the par for the hole.
- ③ Displays the first initial of the player's name.
- ④ Displays the strokes for the hole.  
 Select to enter or update the number of strokes for the hole, or view the hole information for each player.  
**NOTE:** Your score may be highlighted to indicate how close you are to par for the hole.  
 One light blue circle: One under par  
 Two dark blue circles: Two or more under par  
 Light orange square: One over par  
 Other colored square: Two or more over par, with different colors marking how many over  
 No highlight: Par
- ⑤ Select to view and update scoring settings.

### Setting the Scoring Method

You can change the method the device uses to keep score.

- 1 Select an option:
  - If you are currently playing a round, select > Scorecard > > Scoring Method.
  - If you are not currently playing a round, select > Scoring > Scoring Method.
- 2 Select a scoring method.

#### About Stableford Scoring

When you select the Stableford scoring method ([Setting the Scoring Method, page 12](#)), points are awarded based on the number of strokes taken relative to par. At the end of a round, the highest score wins. The device awards points as specified by the United States Golf Association.

The scorecard for a Stableford scored game shows points instead of strokes.

Points	Strokes Taken Relative to Par
0	2 or more over
1	1 over
2	Par
3	1 under
4	2 under
5	3 under

#### About Match Scoring

When you select the match scoring method ([Setting the Scoring Method, page 12](#)), one point is awarded at each hole to the player who has the fewest strokes. At the end of a round, the player who won the most holes wins.

**NOTE:** Match scoring is available only for two players.


When you set the device to count strokes, the device determines the winner of each round. Otherwise, at the end of each hole, select the player who had the fewest strokes, or if the number of strokes was equal, select Halved.

### About Skins Scoring

When you select the skins scoring method ([Setting the Scoring Method, page 12](#)), players compete for a prize on each hole.

When you set the device to count strokes, the device determines the winner of each hole. Otherwise, at the end of each hole, select the player who had the fewest strokes. You can select multiple players if there is a tie for the win.

### Setting a Player Handicap



- 1 While playing a round, select  > **Settings** > **Scoring** > **Handicap Scoring**.
- 2 Select an option:
  - To use the Garmin Golf™ app for a player's handicap instead of setting one on the device, select **Use Garmin Golf**.
  - To enter the number of strokes that will be subtracted from the player's total score, select **Local Handicap**.
  - To enter the player's handicap index and the course slope rating to calculate a course handicap for the player, select **Index/Slope**.
- 3 If necessary, to disable handicap scoring, select **Off**.


### Enabling Statistics Tracking

While playing a round, select  > **Settings** > **Scoring** > **Stat Tracking** > **On**.

### Recording Statistics

Before you can record statistics, you must enable statistics tracking ([Enabling Statistics Tracking, page 13](#)).



- 1 If necessary, from the scorecard, select the hole.
- 2 Select  and  to set the total number of strokes taken.
- 3 Set the number of putts taken.

**NOTE:** The number of putts taken is used for statistics tracking only and does not increase your score.
- 4 Select the arrow to indicate where your ball landed on the fairway.
- 5 Set the number of penalties.
- 6 Select .

### History

You can use your paired phone to upload scorecards to the Garmin Golf™ app. You can use the app to view saved rounds and player statistics ([Garmin Golf™ App, page 22](#)).

### Ending a Round

- 1 Select  > **End Round**.
- 2 Select an option:
  - To view your statistics and round information on the scorecard, select .
  - To save the round, select **Save**.
  - To discard the round, select **Discard**.

## Radar Training Features

The device provides training modes and practice to test your driving and putting skills, improve your golf game, and evaluate your clubs for bag mapping. These features use the internal device radar to take measurements that help you analyze your golf practice. You can customize the training settings, such as target distance, roll factor, and units, before or during your training sessions ([Radar Training Settings, page 21](#)).


**NOTE:** You can also press the radar button to practice your swing during a round of golf ([Device Overview, page 4](#)). If you do not hit a ball with your swing during this mode, only the club head speed and swing tempo metrics display.

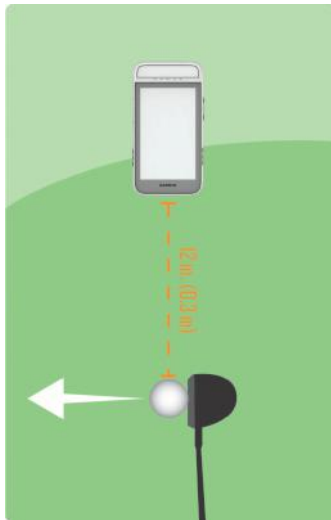
**Driving Range:** Provides radar ball and swing metrics, including estimated carry and roll, club head speed, ball speed, smash factor, and swing tempo ([Training with the Driving Range Feature, page 14](#)).

**Putting Training:** Provides putting metrics, including stroke length, ball and club speed, and tempo ([Using the Putting Training Feature, page 17](#)).

**Bag Mapping:** Lets you measure the average carry or total distance for each club in your bag ([Mapping Your Bag, page 19](#)).

### Training with the Driving Range Feature

- 1 Select  > **Driving Range** > **Start**.  
The radar turns on.
- 2 Attach the magnetic clip to the back of the device ([Using the Magnetic Clip, page 27](#)).
- 3 Place the device on the ground within 0.3 m (1 ft.) of the driving ball, in line with and on the same level as you and the ball.
- 4 Prop the device on a golf ball using the divot on the back of the magnetic clip.



- 5 Hit a shot.



1	Displays the number of shots taken.
2	Displays the ball speed.
3	Displays the club head speed.
4	Displays the smash factor. <b>NOTE:</b> The smash factor is the ball speed divided by the club head speed, and is used to indicate the efficiency of the club hitting the ball. A higher number is more efficient.
5	Displays the estimated carry distance.
6	Displays the estimated total distance.
7	Displays the swing tempo ( <i>Tempo Training, page 15</i> ). <b>NOTE:</b> The swing tempo is the backswing time divided by the downswing time, expressed in a ratio.
8	Select to update driving range settings, view instructional tips, or end a driving range training session ( <i>Radar Training Settings, page 21</i> ).

6 If necessary, swipe left or right to view the tempo training (*Tempo Training, page 15*) and target practice (*Target Practice, page 16*) data screens.

7 When training is complete, select > **End Session**.

8 Select **Yes** to save the training session.

You can view saved training sessions in your Garmin Golf™ account (*Garmin Golf™ App, page 22*).

## Tempo Training

The device measures and displays your backswing time and downswing time. The device also displays your swing tempo. Swing tempo is the backswing time divided by the downswing time, expressed in a ratio. A 3 to 1 ratio, or 3.0, is the ideal swing tempo based on studies of professional golfers (*The Ideal Swing Tempo, page 16*).

From the home screen, select to start a driving range or putting training session, and then swipe left or right to view the **Tempo Training** data screen.




- |   |  |
|---|--|
| ① | Displays the number of drives or putts taken.  |
| ② | Displays the tempo timing (backswing to downswing time ratio for driving sessions) or tempo goal (for putting sessions).<br>Select to update the tempo times.  |
| ③ | Displays your swing tempo.<br><b>NOTE:</b> Your swing tempo and swing times are highlighted in different colors to indicate how close you are to the target timing.<br>Green: Within 25% of the target time<br>Red: Faster than the target time<br>Blue: Slower than the target time |
| ④ | Displays your backswing time.  |
| ⑤ | Displays your downswing time.  |
| ⑥ | Select to update training settings, view instructional tips, or end a training session ( <i>Radar Training Settings, page 21</i> ).  |

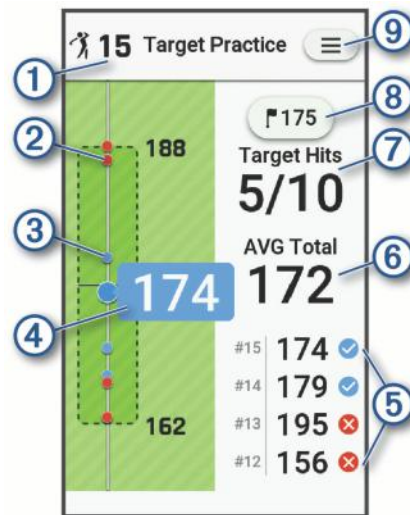
### The Ideal Swing Tempo

You can achieve the ideal 3.0 swing tempo by using different swing timings. For example, 0.7 sec./0.23 sec. or 1.2 sec./0.4 sec. Each golfer may have a unique swing tempo based on their ability and experience. To find your ideal swing tempo, you should start with the slowest timing and try it for a few swings. When your swing tempo is consistent with the tempo goal, you can move up to the next timing. When you find a timing that is comfortable, you can use it to achieve more consistent swings and performance.

### Target Practice

From the home screen, select , start a driving range session, and then swipe left or right to view the **Target Practice** data screen.

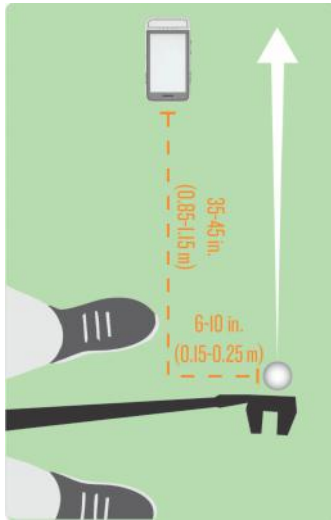
**NOTE:** Before you can view the target practice data, you must set the **Target Distance** setting (*Radar Training Settings, page 21*). You can update this setting anytime during a training session.



- ① Displays the number of shots taken.
- ② Previous shots hit outside the target area, indicated by a red dot.
- ③ Previous shots hit inside the target area, indicated by a blue dot.
- ④ Displays the current distance target.
- ⑤ The distance of the previous shots.
- ⑥ The average target distance over all shots taken during the training session.
- ⑦ Displays the number of target hits, over the number of shots attempted.
- ⑧ Displays the target distance.  
Select to update the target distance for the driving range training session.
- ⑨ Select to update driving range settings, view instructional tips, or end a driving range training session ([Radar Training Settings, page 21](#)).

## Using the Putting Training Feature

- 1 Select > **Putting Training** > **Start**.  
The radar turns on.
- 2 Attach the magnetic clip to the back of the device ([Using the Magnetic Clip, page 27](#)).
- 3 Place the device on the ground within 0.85 to 1.15 m (35 to 45 in.) of the putting ball.
- 4 Move the putting ball forward or back 0.15 to 0.25 m (6 to 10 in.) from the device line.
- 5 Prop the device on a golf ball using the divot on the back of the magnetic clip.



6 Hit a putt.



①	Indicates the radar status. Green indicates the radar is ready. Red indicates that the device is unable to measure.
②	Displays the number of putts taken.
③	Displays your follow through stroke length. Green indicates the stroke length is 0.95-1.5 times the back stroke length. Red indicates the stroke length is not within that ideal range.
④	Displays your back stroke length.
⑤	Displays the ratio for the previous four putts.
⑥	Displays the average ratio.
⑦	Displays your putting stroke length ratio. <b>NOTE:</b> The stroke length ratio is the follow through stroke length divided by the back stroke length.
⑧	Select to update your putting speed units, view instructional tips, or end a putting training session ( <i>Radar Training Settings, page 21</i> ).

7 If necessary, swipe left or right to view the tempo training (*Tempo Training, page 15*) and putting overview (*Putting Overview, page 19*) data screens.


8 When training is complete, select **≡** > **End Session**.

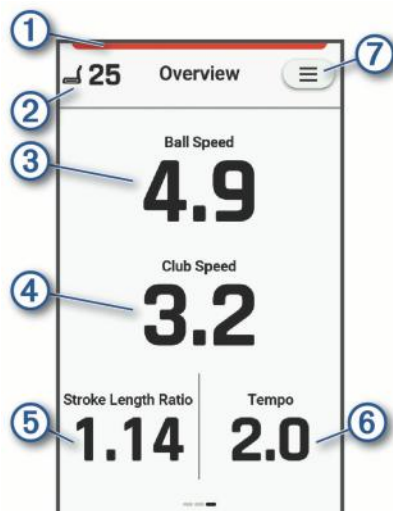
9 Select **Yes** to save the training session.

You can view saved training sessions in your Garmin Golf™ account ([Garmin Golf™ App](#), page 22).

## Putting Overview

The device measures and displays your putting stroke length ratio, which is the ratio of the follow through stroke and back stroke lengths when hitting a putt. The ideal putting stroke length ratio is 1 to 1.5 based on studies of professional golfers. This helps with natural acceleration through impact.



From the home screen, select  start a putting training session, and then swipe left or right to view the **Overview** data screen.

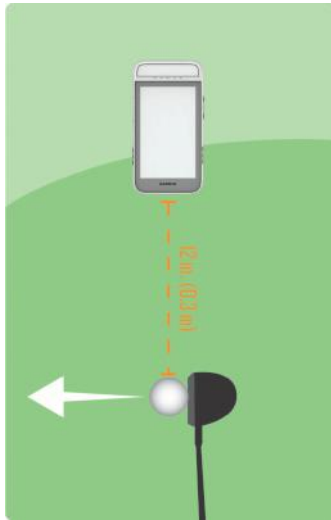


1	Indicates the radar status. Green indicates the radar is ready. Red indicates that the device is unable to measure.
2	Displays the number of putts in the training session.
3	Displays the ball speed.
4	Displays the club head speed.
5	Displays the putting stroke length ratio. <b>NOTE:</b> The stroke length ratio is the follow through stroke length divided by the back stroke length.
6	Displays the swing tempo ( <a href="#">Tempo Training</a> , page 15). <b>NOTE:</b> The swing tempo is the backswing time divided by the downswing time, expressed in a ratio.
7	Select to update your putting speed units, view instructional tips, or end the putting training session ( <a href="#">Radar Training Settings</a> , page 21).

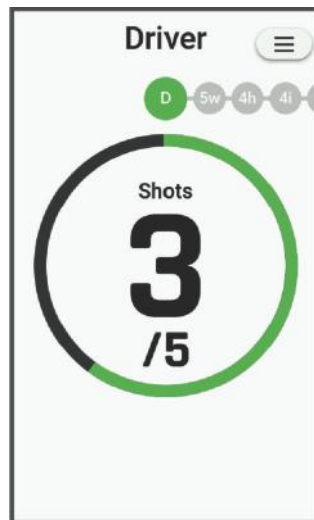
## Mapping Your Bag

You can use the bag mapping feature to measure the average carry or total distance for each club in your bag ([Radar Training Settings](#), page 21).

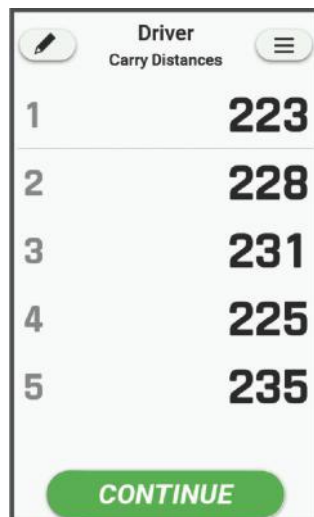
- 1 Select  > **Bag Mapping** > **Start**.  
The radar turns on.
- 2 Select the club or clubs you want to measure, in order of high to low or low to high.
- 3 Select  > **Start**.  
**NOTE:** You have the option to warm up with swing metrics before starting your session.
- 4 Attach the magnetic clip to the back of the device ([Using the Magnetic Clip](#), page 27).
- 5 Place the device on the ground within 0.3 m (1 ft.) of the driving ball, in line with and on the same level as you and the ball.
- 6 Prop the device on a golf ball using the divot on the back of the magnetic clip.



7 Hit a shot.



8 Continue hitting shots until you complete five shots with the selected club. After five shots, a summary appears with the distance for each swing.

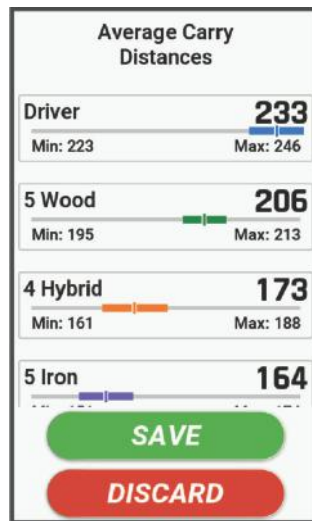


**NOTE:** You can delete a shot if necessary. Select , select the shot or shots, select **Delete > Finish Club**, and hit again until there are five shots for that club.

9 Select **Continue**.

**NOTE:** The device automatically advances to the next club after 10 seconds of inactivity.

- 10 Repeat steps 7-9 for each selected club.  
When you complete all shots for the bag mapping session, a summary appears with the average distance for each club.



- 11 Select **Save**.
- 12 Select an option:
- Select **Use Club Data** > **Confirm** to enable the **Virtual Caddie** feature to use bag mapping data ([Virtual Caddie, page 10](#)).
  - Select **Skip** to continue using in-round data for the **Virtual Caddie** feature.
- 13 Sync with the Garmin Golf™ app to view the updated club data in your Garmin Golf account ([Garmin Golf™ App, page 22](#)).

## Radar Training Settings

Select , select the training option, and select **Settings** to customize radar training settings and features.

**NOTE:** Not all settings are available for all radar training and practice modes.

**Distance Metric:** Sets the distance option to measure the golf ball travel for a bag mapping session.

**End Session:** Ends the current training session.

**Placement Help:** Opens a tutorial on where to place the device relative to the ball for optimal radar performance.

**Select Club:** Sets the club for the current shot.

**Set Roll Factor:** Adjusts the roll factor ([Setting the Roll Factor, page 21](#)).

**Speed Units:** Sets the units of measure for the travel speed of the golf ball.

**Swing Speed:** Sets the speed of the club head when it hits the ball. This can affect your swing tempo. Select **Custom** to customize the swing tempo ratio ([The Ideal Swing Tempo, page 16](#)).


**Target Distance:** Sets the target distance traveled by the golf ball.

**Tips:** Provides best practice tips for your golf swing.

**Units:** Sets the units of measure, such as golf distance, speed, and elevation.

### Setting the Roll Factor

The device estimates your total distance using the carry estimate plus roll. The roll factor varies due to differences in balls, clubs, and surface conditions, as well as ball spin and launch angle. These factors cannot be detected by the device. If you are not getting the distance result you expect, you can adjust the roll factor.

- 1 Select  > **Driving Range** > **Settings** > **Set Roll Factor**.
- 2 Use the slider to increase or decrease your roll.

## Connected Features

Connected features are available for your Approach® golf device when you connect it to a compatible phone using Bluetooth® technology and install the Garmin Golf™ app on the connected phone. Go to [www.garmin.com/apps](http://www.garmin.com/apps) for more information. Some features are also available when you connect your device to a Wi-Fi® network.

**Scorecard uploads to Garmin Golf:** Automatically sends scorecards to the Garmin Golf app when you sync your device. This allows you to view detailed statistics and participate in online leaderboards.

**Software updates:** Allows you to receive updates for your device software using the Garmin Golf app.

**Course updates:** Allows you to receive the latest course updates using the Garmin Golf app.

**Bluetooth sensors:** Allows you to connect Bluetooth compatible sensors, such as the Approach club tracking sensors and rangefinders.

**Find My Garmin:** Allows you to use the Garmin Golf app to locate your device using its last known location.

## Pairing Your Phone

To use the connected features of the Approach® golf device, it must be paired directly through the Garmin Golf™ app, instead of from the Bluetooth® settings on your phone.

- 1 During the initial setup on your device, select **OK** when you are prompted to pair with your phone.  
**NOTE:** If you previously skipped the pairing process, you can select **⚙️ > System > Connectivity > Pair Phone**.
- 2 Scan the QR code with your phone.  
**NOTE:** If you have not installed the Garmin Golf app on your phone, you are prompted to install it from the app store.
- 3 Open the Garmin Golf app.
- 4 Select **Add Device**.
- 5 Follow the instructions in the app to complete the pairing process.

## Garmin Golf™ App

The Garmin Golf app allows you to upload scorecards from your Approach® G82 device to view detailed statistics and shot analyses. Golfers can compete with each other at different courses using the Garmin Golf app. More than 43,000 courses have leaderboards that anyone can join. You can set up a tournament event and invite players to compete. With a Garmin Golf membership, you can access additional features, such as green contour data and more.

The Garmin Golf app syncs your data with your Garmin Connect™ account. You can download the Garmin Golf app from the app store on your phone ([garmin.com/golfapp](http://garmin.com/golfapp)).

## Automatic Course Updates

Your Approach® golf device features automatic course updates with the Garmin Golf™ app. When you connect your golf device to your phone, the golf courses you use most frequently are updated automatically.

## Customizing Your Golf Club List

After you pair your golf handheld with your phone using the Garmin Golf™ app, you can use the app to customize the default golf club list.

- 1 Open the Garmin Golf app on your phone.
- 2 Select **Profile > My Bag**.
- 3 Select an option to add, edit, delete, or mark a club inactive.
- 4 Sync your compatible Garmin® golf device with the Garmin Golf app.  
The updated golf club list appears on your golf device.

## Connecting to a Paired Phone

Before you can connect to your phone, you must pair your phone to your device ([Pairing Your Phone, page 22](#)).

When you connect to your phone using Bluetooth® technology, you can share scores and other data with the Garmin Golf™ app.

- 1 On your phone, enable Bluetooth technology.
- 2 On your device, select **⚙️ > System > Connectivity > Phone > Status** to enable Bluetooth technology.

## Turning Off the Bluetooth® Phone Connection


- 1 Select **⚙️ > System > Connectivity > Phone**.

- 2 Select the **Status** toggle switch to turn off the Bluetooth phone connection on your Approach® golf device.
- 3 Open the Bluetooth settings on your phone to disconnect the Approach golf device.  
Refer to the owner's manual for your phone to turn off Bluetooth technology on your phone.

## Connecting to a Wireless Network

You can set up the Wi-Fi® network connection using the Approach® golf handheld.

**NOTE:** You can also set up the Wi-Fi network connection using the Garmin Express™ application ([Setting Up Garmin Express™](#), page 31). Some wireless features are only available through Garmin Express.

- 1 On the device, select  > **System** > **Connectivity** > **Wi-Fi**.
- 2 If necessary, select **Status** to enable Wi-Fi technology.
- 3 Select **My Networks** > **Add Network**.
- 4 Select a wireless network from the list.
- 5 If necessary, enter the password.

The golf handheld stores the network information and connects automatically when you turn on the device.

**TIP:** You can also select **Wi-Fi Sync** to manually sync your Wi-Fi connection.

## Club Sensors

Your device is compatible with Approach® golf club sensors. When paired with a full set of club sensors installed on all your golf clubs, you can automatically track your golf shots, including location, distance, and club type. See the owner's manual for your club sensors for more information ([garmin.com/manuals/ApproachCT10](http://garmin.com/manuals/ApproachCT10)).

### Pairing Your Sensors with Your Device

Before you can record shots, you must pair your Approach® sensors with your Approach G82 device, and assign sensors to your clubs.

- 1 Attach all sensors to your clubs.
- 2 Take a club out of your golf bag.

You should keep all of the other clubs in your golf bag while pairing.

**TIP:** You should complete the pairing process in a well-lit room. The sensors automatically wake up based on the ambient light.

- 3 Bring the club within 1 m (3 ft.) of your device.

**NOTE:** The grip should be pointed up.



- 4 From the device settings, select **Club Sensors** > **Add New**.

The device begins searching for the sensor. A message appears when the sensor is detected.

- 5 Follow the on-screen instructions to pair your device with the club you removed from the bag.  
A message appears when the sensor is assigned.
- 6 Return the club to your golf bag.
- 7 Take out the next club from your golf bag.
- 8 Repeat steps 5 through 7 until all of the sensors have been assigned to your clubs.

### Pairing a Rangefinder

You can pair your Approach® golf handheld with a compatible Garmin® rangefinder. When paired, the measured distance from the rangefinder appears on your golf handheld.

- 1 Bring the compatible rangefinder within 10 m (33 ft.) of your golf handheld.
- 2 Select  > **Pair Rangefinder**.
- 3 On your rangefinder, press  to wake up the device and initiate pairing.  
For more information, see the owner's manual for your compatible rangefinder.

## Settings

Select  to customize device settings and features.

**Scoring:** Sets the scoring method, enables handicap scoring and statistics tracking, and more ([Scoring Settings, page 24](#)).

**Driver Distance:** Sets the average distance the ball travels on your drive. This distance appears as an arc on the hole view screen when you are on the tee box ([Hole View, page 6](#)).

**PlaysLike:** Sets preferences for the "plays like" distance feature, which shows adjusted distances to the green while playing golf ([PlaysLike Settings, page 24](#)).

**Virtual Caddie:** Sets preferences for the club recommendation mode and data source. You can use the radar bag mapping feature to evaluate your clubs and use the club data when playing with the Virtual Caddie feature ([Mapping Your Bag, page 19](#)). The Virtual Caddie feature allows you to select virtual caddie club recommendations, and appears after you play five rounds of golf, track your clubs, and upload your scorecards to the Garmin Golf™ app ([Virtual Caddie, page 10](#)).

**TIP:** You can also use Approach® club tracking sensors with the Virtual Caddie feature.

**Big Numbers:** Turn on or off to change the size of the numbers on the hole view screen ([Big Numbers Mode, page 7](#)).

**Tournament Mode:** Turn on or off to disable the PinPointer and PlaysLike distance features, Virtual Caddie, and the GreenZoom green contours feature. These features are not allowed during sanctioned tournaments or handicap calculation rounds.

The GreenZoom feature requires a Garmin Golf app subscription ([Garmin Golf™ App, page 22](#)).

**Course Manager:** Select to view internal storage information for the device, view downloaded courses, and update course maps.

**TIP:** You can also manage downloaded courses through Garmin Express™ ([garmin.com/express](http://garmin.com/express)).

**Club Sensors:** Set up your compatible Approach club tracking sensors ([Pairing Your Sensors with Your Device, page 23](#)).

**Pair Rangefinder:** Pairs the device to your compatible rangefinder ([Pairing a Rangefinder, page 23](#)).

**System:** Sets the system settings, such as backlight timeout, units of measure, and more ([System Settings, page 24](#)).

## Scoring Settings

Select  > **Scoring**.

**Scoring Method:** Changes the method the device uses to keep score ([Setting the Scoring Method, page 12](#)).

**Handicap Scoring:** Enables handicap scoring ([Setting a Player Handicap, page 13](#)).

**Show Score:** Displays your total score for the round at the top of the scorecard ([Keeping Score, page 11](#)).

**Stat Tracking:** Enables statistics tracking for the number of putts, greens in regulation, and fairways hit while playing golf ([Enabling Statistics Tracking, page 13](#)).

**Penalties:** Enables penalty stroke tracking while playing golf ([Recording Statistics, page 13](#)).

**Prompt:** Enables the prompt at the start of a round asking if you want to keep score.

## PlaysLike Settings

Select  > **PlaysLike**.

**Wind:** Enables wind speed and direction to be included in the PlaysLike distance adjustments.

**Weather:** Enables air density to be included in the PlaysLike distance adjustments.

**Home Conditions:** Allows you to manually change the altitude, temperature, and humidity settings used for the air density comparison.

**NOTE:** It can be helpful to set weather conditions that match where you typically play. If they do not match the conditions at your normal course locations, the air density adjustments may seem inaccurate.

## System Settings

Select  > **System** to customize the system settings.

**Connectivity:** Pairs your golf handheld to a phone or wireless network, and turns Wi-Fi® technology on or off ([Connected Features, page 22](#)). You can also check your phone connection status ([Phone Connectivity Settings, page 25](#)).

**Language:** Sets the language displayed on the device.

**NOTE:** Changing the text language does not change the language of user-entered data or map data.

**Time Format:** Sets the device to show time in a 12-hour or a 24-hour format.

**Backlight:** Sets the backlight timeout and the screen brightness ([Backlight Settings, page 25](#)).

**Units:** Sets the units of measure used on the device ([Changing the Units of Measure, page 25](#)).

**Passcode:** Sets or changes a four-digit passcode to secure your personal information ([Setting Your Device Passcode, page 25](#)).

**USB Mode:** Sets the device to use MTP (media transfer protocol) mode or Garmin® mode when connected to a computer ([Connecting the Device to Your Computer, page 30](#)). Garmin mode allows you to continue using the device while it is plugged in to a power source.

**Screenshot:** Turns on or off the ability to hold the radar button to capture a screenshot of the device screen ([Device Overview, page 4](#)). Screenshots are saved in the screenshot folder of the device's internal storage ([Connecting the Device to Your Computer, page 30](#)).

**Reset:** Resets user data and settings ([Restoring All Default Settings, page 32](#)).

**About:** Displays device information, such as the unit ID, software version, regulatory information, and license agreement ([Viewing E-label Regulatory and Compliance Information, page 30](#)).

## Phone Connectivity Settings

Phone connectivity features are available for your device when you pair it using the Garmin Golf™ app ([Pairing Your Phone, page 22](#)).

Select  > **System** > **Connectivity** > **Phone**.

**Status:** Turns Bluetooth® technology on and off, and shows the current connection status ([Connecting to a Paired Phone, page 22](#)).

**Pair Phone:** Pairs your device with a compatible Bluetooth enabled phone. This setting allows you to use Bluetooth connected features using the Garmin Golf app, including notifications and scorecard uploads.

## Backlight Settings

Select  > **System** > **Backlight**.

**NOTE:** Extensive use of screen backlighting can significantly reduce battery life. You can adjust the backlight brightness to maximize the battery life.

**Timeout:** Sets the length of time before the backlight turns off.

**Brightness:** Sets the brightness level of the backlight.

## Changing the Units of Measure

You can customize the units of measure for the device.

1 Select  > **System** > **Units**.

2 Select a unit of measure.


## Setting Your Device Passcode

### NOTICE

If you enter your passcode incorrectly five times, the golf handheld locks. To unlock the device, you must perform a factory reset or reset it in the Garmin Golf™ app.

You can set up a device passcode to prevent unauthorized users from logging into your device.

1 Select an option:

- During the initial setup, select **Yes** when prompted to create a passcode.
- Select  > **System** > **Passcode** > **Set Passcode**.

2 If you are not paired with the Garmin Golf app, select **Enable** when you are prompted to confirm passcode setup.

3 Enter a four-digit passcode.

4 Re-enter the passcode.

5 Select **Done**.

The next time you turn on the golf handheld, you must enter the passcode before you can view any information.

## Changing Your Device Passcode

You must know your existing device passcode to change it. If you forget your passcode or make too many incorrect passcode attempts, you must reset it in the Garmin Golf™ app.

1 Select  > **System** > **Passcode** > **Change Passcode**.

- 2 Enter your existing four-digit passcode.
- 3 Enter a new four-digit passcode.
- 4 Re-enter the new passcode.
- 5 Select **Done**.

The next time you turn on the device, you must enter the passcode before you can view any information.

## Device Information

### Using the Magnetic Clip

#### WARNING

Both the device and its clip contain magnets. Under certain circumstances, magnets may cause interference with some medical devices, including pacemakers and insulin pumps. Devices and accessories that contain magnets should be kept away from such medical devices.

#### NOTICE

Both the device and its clip contain magnets. Under certain circumstances, magnets may cause damage to some electronic devices, including hard drives in laptop computers. Use caution when devices and accessories that contain magnets are near electronic devices.

You can use the lanyard carabiner on the magnetic clip to attach the device to your belt, pocket, or bag. You can also use the magnetic clip as a stand for radar training.

**NOTE:** Go to [www.garmin.com/golf](http://www.garmin.com/golf) to purchase accessories for your device.

- 1 Thread the fabric end ① of the lanyard through the slots on the back of the magnetic clip.



- 2 Thread the fabric end of the lanyard through the metal loop ② on the opposite end of the lanyard.
- 3 Insert the carabiner ③ through the fabric loop on the end of the lanyard.



- 4 Snap the magnetic back of the device into the clip until it locks into place.



- 5 During radar training, rest the device with the magnetic clip attached on a golf ball, using the divot at the rear of the clip as a stand.



- 6 To remove the magnetic clip, gently pull the clip off the device.

## Charging the Device

### ⚠ WARNING

This device contains a lithium-ion battery. See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

The device contains a magnet. Under certain circumstances, magnets may cause interference with some medical devices, including pacemakers and insulin pumps. Keep the device away from such medical devices.

### NOTICE

To prevent corrosion, thoroughly dry the USB port, the weather cap, and the surrounding area before charging or connecting to a computer.

The device contains a magnet. Under certain circumstances, magnets may cause damage to some electronic devices, including hard drives in laptop computers. Use caution when the device is near electronic devices.

The device is powered by a lithium-ion battery that you can charge using a standard wall outlet or a USB port on your computer. For optional accessories and replacement parts, go to [buy.garmin.com](http://buy.garmin.com), or contact your Garmin® dealer.

- 1 Pull up the weather cap from the USB port.
- 2 Plug the USB cable into the USB port on your device.



- 3 Plug the other end of the USB cable into an AC adapter (5V minimum output power) or a computer USB port.
- 4 If necessary, plug the AC adapter into a standard wall outlet  
When you connect the device to a power source, the device turns on.
- 5 Charge the battery completely.  
After you charge the device, close the weather cap.

## Device Care

### NOTICE

Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

Never use a hard or sharp object to operate the touchscreen, or damage may result.

Avoid chemical cleaners, solvents, sunscreen, and insect repellents that can damage plastic components and finishes.

Secure the weather cap tightly to prevent damage to the USB port.

Avoid extreme shock and harsh treatment, because it can degrade the life of the product.

## Cleaning the Device

- 1 Wipe the device using a cloth dampened with a mild detergent solution.
- 2 Wipe it dry.

After cleaning, allow the device to dry completely.

## Cleaning the USB Port

- 1 Turn off the device and disconnect the device from power.
- 2 Clean the USB port using a soft, clean, lint-free cloth or cotton swab.  
**NOTE:** If necessary, you can lightly dampen the cloth or cotton swab with isopropyl alcohol.
- 3 Allow the device to dry completely before you connect it to power.

## Long-Term Storage

When you do not plan to use the Approach® G82 device for several months, you should charge the battery to at least 50% before you store the device. You should store the device in a cool, dry place with temperatures around the typical household level. After storage, you should fully recharge the device before using it.

## Using the Backlight


- At any time, tap the touchscreen to turn on the backlight.  
**NOTE:** Alerts and messages also activate the backlight.
- Change the backlight timeout and brightness ([Backlight Settings, page 25](#)).

## Specifications

Battery type	Rechargeable, built-in lithium-ion battery
Battery life, GPS mode	Up to 25 hr. <b>NOTE:</b> The actual battery life of a fully charged battery depends on how much time you use GPS. Exposure to extremely cold temperatures also reduces battery life.
Battery life, radar mode	Up to 8 hr.
Water rating	IEC 60529 IPX7 <sup>1</sup>
Operating and storage temperature range	From -20° to 60°C (from -4° to 140°F)
USB charging temperature range	From 0° to 45°C (from 32° to 113°F)
EU wireless frequencies and transmit power	2400 - 2483,5 MHz < 20 dBm 24,15 - 24,25 GHz < 20 dBm
EU SAR values	0,33 W/kg limb, 0,33 W/kg torso

## Viewing E-label Regulatory and Compliance Information

The label for this device is provided electronically. The e-label may provide regulatory information, such as identification numbers provided by the FCC or regional compliance markings, as well as applicable product and licensing information.

- 1 Select .
- 2 Select **System**.
- 3 Select **About**.

## Product Updates

On your computer, install Garmin Express™ ([www.garmin.com/express](http://www.garmin.com/express)). On your phone, install the Garmin Golf™ app.

This provides easy access to these services for Garmin® devices:

- Software updates
- Map updates
- Course updates
- Data uploads to Garmin Golf
- Product registration

## Updating the Software Using the Garmin Golf™ App

After you pair your device with your phone, you can use the Garmin Golf app to update your device software ([Pairing Your Phone](#), page 22).

Sync your device with the Garmin Golf app ([Connecting to a Paired Phone](#), page 22).

**TIP:** You can also select  > **System** > **Connectivity** > **Wi-Fi** > **Wi-Fi Sync** to manually sync your Wi-Fi® connection.

When new software is available, the app automatically sends the update to your device.

## Connecting the Device to Your Computer

### NOTICE

To prevent corrosion, thoroughly dry the USB port, the weather cap, and the surrounding area before charging or connecting to a computer.

- 1 Pull up the weather cap from the USB port.
- 2 Plug one end of the cable into the USB port on the device.
- 3 Plug the other end of the cable into a computer USB port.

Your device appears as a removable drive in This PC on Windows® computers. Because Mac® operating systems provide limited support for MTP (media transfer protocol) file transfer mode, you should use the Garmin Express™ application to view your device on a Mac computer.

<sup>1</sup> The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to [www.garmin.com/waterrating](http://www.garmin.com/waterrating).

## Setting Up Garmin Express™

- 1 Connect the device to your computer using a USB cable.
- 2 Go to [garmin.com/express](http://garmin.com/express).
- 3 Follow the on-screen instructions.

## Updating the Software Using Garmin Express™

Before you can update your device software, you must download and install the Garmin Express application and add your device (*Setting Up Garmin Express™*, page 31).

- 1 Connect the device to your computer using the USB cable.  
When new software is available, the Garmin Express application sends it to your device.
- 2 After the Garmin Express application finishes sending the update, disconnect the device from your computer.  
Your device installs the update.

## Getting More Information

You can find more information about this product on the Garmin® website.

- Go to [support.garmin.com](http://support.garmin.com) for additional manuals, articles, and software updates.
- Go to [buy.garmin.com](http://buy.garmin.com), or contact your Garmin dealer for information about optional accessories and replacement parts.

# Troubleshooting


## My device cannot find nearby golf courses

If a course update is interrupted or canceled before it completes, your device may be missing course data. To repair missing course data, you must update the courses again.

- 1 Download and install course updates from the Garmin Express™ application ([Updating the Software Using Garmin Express™](#), page 31).
- 2 Safely disconnect your device.
- 3 Go outside, and start a test round of golf to verify the device finds nearby courses.


## My phone will not connect to the device

If you have previously paired your device to your phone and your phone will not connect to the device, you can try these tips.

- Turn off your phone and your device, and turn them back on again.
- Enable Bluetooth® technology on your phone.
- Update the Garmin Golf™ app to the latest version.
- Remove your device from the Garmin Golf app and the Bluetooth settings on your phone to retry the pairing process.
- If you bought a new phone, remove your device from the Garmin Golf app on the phone you intend to stop using.
- Bring your phone within 10 m (33 ft.) of the device.
- On your phone, open the Garmin Golf app, and select **Profile > My Devices > Add Device** to enter pairing mode.
- Select  > **System > Connectivity > Phone > Pair Phone**.

## My device is in the wrong language

You can change the device language selection if you have accidentally selected the wrong language.



- 1 From the home screen, select .
- 2 Scroll down to the last item in the list, and select it.
- 3 Select the second item in the list.
- 4 Select your language.

## My device displays the wrong units of measure

- Verify you selected the correct units of measure setting on the device ([Changing the Units of Measure](#), page 25).
- Verify you selected the correct units of measure setting on your Garmin Golf™ account.

If the units of measure on the device do not match your Garmin Golf account, your device settings may be overwritten when you sync your device.


## Restarting Your Device

- 1 Press and hold  until the device turns off.
- 2 Hold  to turn on the device.

## Restoring All Default Settings

Before you reset the golf device, you should sync it with the Garmin Golf™ app to upload your scorecards.

You can reset all of the device settings to the factory default values.

- 1 Select  > **System > Reset**.
- 2 Select an option:
  - To reset all of the device settings to the factory default values and save all user-entered information and scorecards, select **Reset All Settings**.
  - To reset all of the device settings to the factory default values and delete all user-entered information and scorecards, select **Delete All**.
- 3 Select **Yes**.

## Acquiring Satellite Signals

The device may need a clear view of the sky to acquire satellite signals. The time and date are set automatically based on the GPS position.

**TIP:** For more information about GPS, go to [www.garmin.com/aboutGPS](http://www.garmin.com/aboutGPS).

- 1 Go outdoors to an open area.  
The front of the device should be oriented toward the sky.
- 2 Wait while the device locates satellites.  
It may take 30–60 seconds to locate satellite signals.

## Improving GPS Satellite Reception

- Frequently sync the device to your Garmin® account:
  - Connect your device to a computer using the USB cable and the Garmin Express™ application.
  - Sync your device to the Garmin Golf™ app using your Bluetooth® enabled phone.
  - Connect your device to your Garmin account using a Wi-Fi® wireless network.

While connected to your Garmin account, the device downloads several days of satellite data, allowing it to quickly locate satellite signals.

- Take your device outside to an open area away from tall buildings and trees.
- Remain stationary for a few minutes.

## Exiting Demo Mode

Demo mode shows a preview of features on your Approach® golf device.

Press  to restart the device.

# support.garmin.com

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