

PadelShooter General

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1. Introduction

PadelShooter General is the official control app for the PadelShooter ball machine family. It lets you wirelessly control your machine over Bluetooth Low Energy (BLE), choose from a library of pre-built training drills, build your own custom multi-shot programs, and manage all your settings from one place.

The app supports both **Padel** and **Tennis** modes and works with six machine models:

Model name	Also known as	Detected by
3A	PadelShooter 3A	Device name ends in -3A
SM	Smart	Device name ends in -SM
3B	PadelShooter 3B	Device name ends in -3B
MX	MAX	Device name ends in -MX
SP	SmartPro	Device name ends in -SP
PS	Standard PS	All other PadelShooter devices

The app is available for **Android** and **iOS** and supports 14 languages: English, Spanish, French, Chinese, German, Portuguese, Italian, Swedish, Finnish, Polish, Japanese, Arabic, Latvian, and Dutch.

2. Getting Started

Before every session: charge the battery

The PadelShooter has **one battery**. On all models this is an external battery that is connected to the machine with a cable. Charge it with the supplied charger, using the small charging socket on the battery itself.

If your machine is a PadelShooter MAX that was ordered with the internal battery option, charge it through the small round socket on the machine panel instead.

Charge before every training session. Start each session with a fully charged battery. There is no second battery to swap to, so a battery that is only partly charged can run out during play and the machine will stop mid-training.

For the two sockets on the battery, and for how to fit the cable correctly at both ends, see [chapter 16, Battery & Power Connection](#).

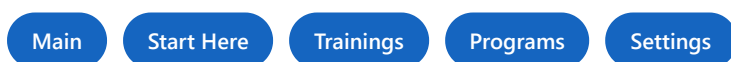
First launch

1. Install the app from the Play Store or App Store.
2. Grant **Bluetooth** and **Location** permissions when prompted (Location is required by Android for BLE scanning).
3. Turn on your PadelShooter machine.
4. Open the app – it will automatically scan for nearby PadelShooter devices.
5. On the first connection the app downloads the training presets for your specific machine model from padelshooter.com. Make sure you have an internet connection for this step.

Tip: After the first connection the presets are stored locally. You no longer need an internet connection to use the app.

App navigation

The bottom navigation bar gives you access to five screens:



The **Start Here**, **Trainings**, and **Programs** screens require an active Bluetooth connection. If the machine disconnects while you are on one of these screens, the app automatically returns you to the Main screen.

3. Main Screen

SCREEN: MAIN

The Main screen is your connection dashboard. It shows:

- Current mode (PADEL / TENNIS) in large text
- Machine model image and name
- Firmware / software version received from the machine
- Bluetooth signal strength indicator (0–4 bars)
- Battery level indicator (0–4 bars, when supported by the machine)
- Connection status text

Bluetooth indicator colours

Colour	Meaning
Cyan / bright blue (4 bars)	Excellent signal
Cyan / bright blue (3 bars)	Good signal
Blue (2 bars)	Moderate signal
Blue (1 bar)	Weak signal
Red (any)	Disconnected or no signal

Automatic reconnection

When the machine is not found, the app enters a reconnection loop: it scans for 15 seconds, pauses 5 seconds, then scans again. As soon as a known PadelShooter comes back into range, it reconnects automatically – no manual action is needed.

Block / jam alert

If the machine's ball bucket empties or a ball jam is detected, a safety dialog appears:

No Balls Detected

The Padelshooter has stopped. The ball bucket may be empty, or a ball jam has been detected. If balls are still in the machine, please check for a jam. For your safety, ALL stuck balls must be completely removed before using the machine again.

Firmware screen (advanced)

A long-press gesture on the version label opens the hidden Firmware Management screen for OTA firmware uploads. See [Section 13 – Firmware Updates](#).

4. Start Here Screen

SCREEN: START HERE

Nine pre-built beginner trainings. Each training shoots one type of ball to one or two positions, making it easy to focus on a single technique. All settings are remembered the next time you open the app.

The nine trainings

#	Name	Description
1	Fixed	Ball is shot to a single fixed position. Perfect for practising a specific stroke technique without moving.
2	Hor Movement	Ball alternates between left and right positions. Focus on lateral footwork and recovery to centre.
3	2-Line	Ball is shot to two specific lines on the court. Practise shifting between backhand and forehand positions.
4	Vert Movement	Ball varies in depth, alternating between short and deep shots. Focus on moving forward and backward.
5	Random	Ball is shot to random positions across the court. Simulates a real match situation where you must react quickly.
6	Bandeja / Smash	High balls designed for practising overheads. Work on your positioning and contact point for bandejas or smashes.
7	Volley	Rapid shots directed at the net area. Improve your reflexes and technique for attacking volleys.
8	Bajada	High balls rebounding off the back wall. Practise attacking the ball as it drops from the glass.
9	Backglass	Shots directed towards the back corners. Practise turning with the ball and hitting off the glass.

Controls

- **Left / Side / Right buttons** – Select which side of the court the machine targets. "Side" = both sides.
- **Up/Down arrows** – Increment or decrement a parameter value by 1. *Long-press* to change by 10.
- **Parameter text fields** – Tap a value and type directly. Tap outside the field or press the keyboard's Done key to confirm.
- **Play** – Send the current settings to the machine and start shooting.
- **Off** – Stop the machine.
- **Info icon (i)** – Opens the training info dialog with a tactical court diagram.

Training info & tactical diagram

Each training has a court diagram showing suggested machine positions (F–J, along the baseline) and target positions (A–E, in the opposite half). Tap **Edit** to customise the diagram and add your own notes. Changes are saved per training.

5. Trainings Screen

SCREEN: TRAININGS

Nine advanced combination drills that mix shot types – for example bandeja followed by volley. The Trainings screen has the same controls as Start Here but adds two extra parameters:

- **Net** – Sets the minimum height the ball will reach. Useful for volley trainings where you want the ball to always clear the net.
- **Delay** – Extra pause (in tenths of a second) between shots. Useful for combination drills where the player needs time to move between positions.

Additionally, the **Left %** and **Right %** sliders let you narrow the horizontal shooting range to any portion of the court. 0 % = far left, 100 % = far right (as seen from the player's side of the net). For example, setting Left % = 30 and Right % = 70 restricts shots to the centre third of the court.

Combination drill tip: For a bandeja–volley sequence, set **Height** for the bandeja ball, **Net** for the minimum volley height, and use **Delay** to give yourself time to move from the baseline to the net.

6. Programs Screen

SCREEN: PROGRAMS

Build your own custom multi-shot training programs with up to **20 shots** per program. Each shot can have completely different parameter values, letting you create complex, realistic rally simulations.

Creating a program

1. Enter a **Program Name**.
2. Select or create a **Category** (e.g. Beginner, Advanced, 1 Player, 2 Players, Shot Type).
3. Tap **Add Shot** to add the first shot.
4. Set the parameters for that shot (Speed, Spin, Freq, Width, Height).
5. Repeat for each shot in the sequence.
6. Tap **Save Program** to store it.

Program buttons

Button	Action
Add Shot	Add a new shot at the end of the sequence (max 20)
Delete Shot	Remove the currently selected shot
Copy Shot	Duplicate the currently selected shot
Move Up	Move the selected shot one position earlier in the sequence
Move Down	Move the selected shot one position later in the sequence
Save Program	Save the program to the selected category
Load Program	Browse and load a previously saved program
Play Program	Send the program to the machine and start shooting
Off	Stop the machine

Searching programs

Use the **Search Programs** field to find a program by name across all categories. Tap **Reset** to clear the search filter.

Program info & tactical diagram

Each program can have a court diagram and free-text notes. Tap the info icon next to the program name to view or edit these.

Export & Import programs

See [Section 12 – Export & Import](#) for instructions on sharing programs between phones or downloading community programs.

7. Settings Screen

SCREEN: SETTINGS

Language

Choose from 14 languages. The app restarts its UI in the selected language immediately.

Padel / Tennis mode

Switch between Padel and Tennis mode. This changes:

- The court graphics shown in training diagrams
- The maximum Speed value (Padel: 0–100 | Tennis: 0–250)
- Training preset values downloaded for your machine model

Settings for each mode are stored separately – you can switch between them without losing your values.

Machine positioning helper

Three buttons (**Left**, **Middle**, **Right**) send a gentle positioning shot to help you align the machine on the court. See [Section 9](#) for full details.

How to use – Help text

Tap **How to use Padelshooter** to read an overview of the three training screens and tips for placing the machine.

Export / Import settings

Back up or restore all training parameter settings. See [Section 12](#).

Export / Import programs

Back up, restore, or share custom programs. See [Section 12](#).

Firmware update

The current firmware version of the connected machine is displayed here. See [Section 13](#).

8. Training Parameters Reference

Parameter	Range (Padel)	Range (Tennis)	What it controls
Speed	0 – 100	0 – 250	Ball launch speed. Higher = faster balls.
Spin	–50 to +50	–50 to +50	Topspin (+) or backspin (–). 0 = flat ball.
Freq	0 – 100	0 – 100	Shot frequency / rate. Higher = more balls per minute.
Width	0 – 100	0 – 100	Horizontal spread of shots. 0 = narrow, 100 = full court width.
Height	0 – 100	0 – 100	Ball trajectory height. Higher = higher arc.
Net <i>(Trainings only)</i>	0 – 100	0 – 100	Minimum height. Balls will never go lower than this. Must be ≤ Height.
Delay <i>(Trainings & Programs)</i>	0 – 100	0 – 100	Extra pause between shots. Useful for combination drills.

Spin direction: Positive spin (+) produces topspin – the ball dips and bounces forward. Negative spin (–) produces backspin – the ball stays low after the bounce. A value of 0 gives a flat, neutral ball.

All parameter values are saved automatically per training, per screen (Start Here / Trainings), and per mode (Padel / Tennis). You only need to set them once.

Left % and Right % (Trainings screen)

These two sliders define the horizontal window the machine uses when shooting. They are expressed as a percentage of the full court width, where 0 % = extreme left and 100 % = extreme right (as seen by the player facing the machine).

Example: Left % = 20, Right % = 80 → the machine only shoots in the middle 60 % of the court.

9. Positioning the Machine

The PadelShooter cannot physically reach the full width of a padel court from the centre of the baseline. To train wide shots, move the machine slightly to one side.

Using the positioning helper

In **Settings** → **Positioning of Padelshooter**, tap one of the three buttons:

Button	What it does
Left	Sends a gentle calibration shot to the left baseline. Move the machine until the ball lands on the centre line, then the machine covers the full left half of the court.
Middle	Sends a shot straight ahead. Use this to confirm or set the machine exactly in the centre of the court.
Right	As Left, but for the right side of the court.

The positioning shot uses fixed settings (Speed 14, Freq 40, Height 40, Net 0) and fires after a short delay so you have time to step back.

Recommended placements

- **Standard position:** Centre of the baseline, close to the back glass. Covers the full court with Width at 100.
- **Corner training:** Place the machine in the opposite corner to train back-glass and side-glass shots.

10. Bluetooth Connectivity

Connecting

The app automatically scans for devices whose Bluetooth name contains "PadelShooter". The scan runs for 15 seconds at a time. When a device is found, the app connects and requests machine information.

Connection status

The Bluetooth icon in the top bar shows the current signal strength (0–4 bars). When the machine is unreachable the icon turns **red** and the app shows "Connecting to PadelShooter..."

Signal strength (RSSI)

Signal strength is checked every 3 seconds. The bars update in real time as you move around the court.

Automatic disconnect detection

If the machine cannot be reached for approximately 15 seconds (5 consecutive failed signal checks), the app marks it as disconnected, the icon turns red, and the reconnection loop starts automatically.

Automatic reconnection

Once disconnected, the app scans for the machine every 5 seconds. When the machine turns back on or comes back into range, the app reconnects without any user action required.

Battery indicator

When the machine reports its battery level, 0–4 bars are shown next to the Bluetooth indicator. The battery reading expires after 15 seconds; if no new reading arrives, the indicator disappears.

Android permissions

On Android 12 and later, the app requires the **Nearby devices** (Bluetooth Scan + Connect) permission. On older Android versions, a **Location** permission is also needed for BLE scanning. Grant all requested permissions for reliable operation.

11. Multiple Machines

If more than one PadelShooter is found during a scan, the app shows a dialog:

"Multiple devices found – Connect to all?"

Tap **Yes** to connect to all machines simultaneously. Tap **No** to skip the extra devices.

When multiple machines are connected, training commands are sent to all of them. Signal strength and battery are tracked per device. This feature is intended for court setups with two machines facing each other.

12. Export & Import

All your training settings and custom programs can be backed up and shared. Export/Import options are found in the **Settings** screen.

Export / Import Settings

Settings include all parameter values (Speed, Spin, Freq, Width, Height, Net, Delay, side selection) for every training, for both Start Here and Trainings screens, and for both Padel and Tennis modes.

Option	Description
Export Settings	Saves a JSON file to the phone's Downloads folder.
Import Settings	Loads a JSON file from the Downloads folder, replacing all current settings.
Import Settings from Web	Downloads the official recommended settings from padelshooter.com.

Export / Import Programs

Option	Description
Export Programs	Saves all programs (all categories) to a JSON file in Downloads.
Import Programs	Loads programs from a JSON file. You can choose to <i>Replace</i> all existing programs or <i>Add</i> the imported programs to your existing ones.
Import Programs from Web	Downloads community programs from padelshooter.com.

File location: Exported files are saved in the phone's **Downloads** folder. On some Android versions you may need to grant storage permission, or use your phone's file manager to locate the file manually.

13. Firmware Updates

The current machine firmware version is shown in **Settings** and also on the Main screen (below the machine image).

Updating the firmware

1. Make sure the machine is connected and you have a valid `.bin` firmware file.
2. Long-press the version label on the Main screen, *or* go to Settings and tap **Firmware Update**.
3. In the Firmware Management dialog, choose **Upload .bin File**.
4. Select the `.bin` file from your phone's storage.
5. Keep the phone close to the machine and wait for the upload to complete. Do not close the app during the update.

Warning: Only use official firmware files provided by PadelShooter / De Racketclub. Using an incorrect file may damage the machine.

14. Troubleshooting

Problem	Possible cause & solution
App cannot find the machine	• Make sure the machine is powered on and within ~10 m. • Check that Bluetooth is enabled on your phone. • On Android, verify Location/Nearby devices permissions are granted. • Restart Bluetooth on your phone and try again.
Bluetooth icon stays green but machine is off	The app detects the disconnect within ~15 seconds via signal strength checks. Wait a moment; the icon will turn red and the reconnection loop will start.
Machine does not reconnect after turning back on	The app scans every 5 seconds. If reconnection does not happen within 30 seconds, close and reopen the app.
Machine stops shortly after pressing Play	Make sure you are using app version 2.0 or later. Earlier versions contained a bug that sent a stop command a few seconds after connecting.
Machine stops with a safety alert	The bucket is empty or a ball is jammed. Clear all balls from the machine before restarting.
Ball direction is opposite to expected for spin	Check that you are on the correct mode (Padel / Tennis). Positive spin = topspin, negative = backspin.
Settings are lost after reinstalling	Use Export Settings before uninstalling. After reinstalling, use Import Settings to restore them.
Import fails / permission denied	Use your phone's file manager app to locate the JSON file in the Downloads folder and open it from there, or grant storage permissions in the phone's Settings app.
Training presets look wrong for my machine	Go to Settings and tap Import Settings from Web to re-download the official presets for your machine model.
App language changed accidentally	Go to Settings → Select Language and choose the desired language.

15. Support & Contact

If you experience a problem not covered in this manual, please visit:

<https://padelshooter.com/>

The download section for your machine model contains additional troubleshooting guides and tutorial videos.

Contact

For personal support (a video via WhatsApp showing the problem is very helpful):

De Racketclub	Phone / WhatsApp: +31 6 30 97 42 99
Or contact your local distributor.	

16. Battery & Power Connection

External battery (standard)

The PadelShooter has **one battery**. On all models this is an **external battery** that is connected to the machine with a cable. A new machine is supplied with **two cables**: one for use and one as a spare.

Internal battery (PadelShooter MAX only)

On the **PadelShooter MAX** an internal battery can be fitted *instead of* the external battery. This is not standard equipment: the machine must have been ordered specifically with the internal battery option. All other models use the external battery.

The two sockets on the external battery

The external battery has two sockets, each with its own purpose:

- 1. **Charging socket (the small one)** – used only to charge the battery with the supplied charger.
- 2. **Machine socket (the round one with 3 pins)** – used to connect the battery to the machine with the supplied cable.

The small round socket on the machine panel

The machine panel also has a small round socket. Whether you use it depends on the type of battery in your machine:

Your machine	Small round socket on the panel
External battery (all models)	Not used. The machine is powered through the round 3-pin socket only.
PadelShooter MAX with internal battery	This is the socket you use to charge the internal battery.

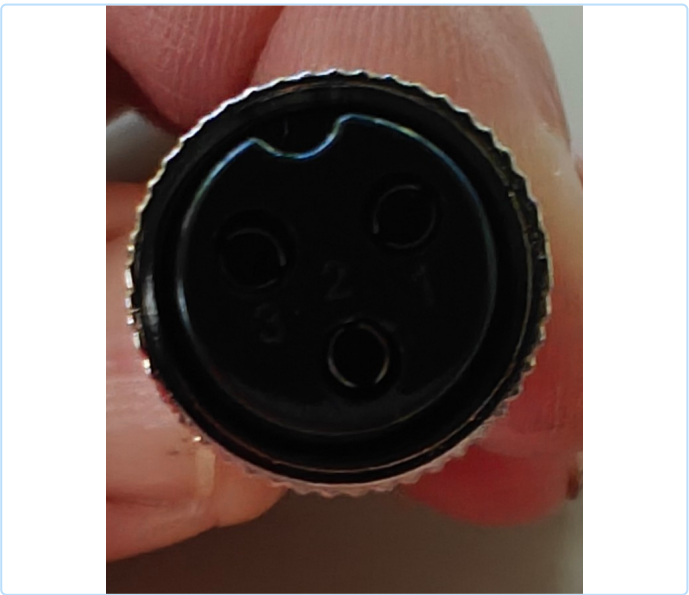
Connecting the cable

This applies to machines with an external battery. The machine and the external battery both have the same type of round socket with **3 pins**. The cable must be seated properly at **both** ends. If the cable is not pushed in completely, the machine will not run or will cut out during use.

The connector can be fitted in one position only. There is a **notch in the collar of the socket**, and a **matching groove in the cable connector**. The two must line up before the cable will slide in.



Socket (on the machine and on the battery). The red circle marks the notch in the collar.



Cable connector. The groove at the top must line up with the notch in the socket.

1. Turn the cable connector until its groove lines up with the notch in the socket.
2. Push the connector straight in, without forcing it. When the groove and notch are aligned it slides in easily.
3. Tighten the ring on the connector by hand to lock the cable in place.
4. Repeat for the other end of the cable, so both the machine side and the battery side are fully seated.

Warning: Never force the connector. If it does not go in, the groove and the notch are not aligned — turn the connector and try again.