

## 2.4.3 Display +/- in pitch tiles — showing direction arrows to avoid errors

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2.4.3

calibration

Even with sign conventions correctly configured in 2.4.1 and 2.4.2, a raw + or - symbol on a pitch tile can be easy to miss at a glance — especially under shop lighting or on a small screen. The **Display +/- in Pitch Tiles** setting adds a visible directional indicator to each pitch tile, making forward, reverse, right, and left pitch unmistakable without requiring the driller to interpret a sign.

## What Are Pitch Tiles?

Pitch tiles are the individual display blocks within a spec sheet that show each pitch value — thumb forward/reverse, thumb lateral, and finger pitch. When this setting is enabled, each tile gains a directional arrow or symbol alongside the numeric value, giving the driller an immediate visual cue about pitch direction rather than relying on the + or - sign alone.

- Directional indicators are especially helpful for less experienced drillers who may not yet have sign conventions fully internalized.

- Useful in high-volume shops where spec sheets are read quickly under pressure.
- Reduces the risk of a misread sign causing a pitch to be drilled in the wrong direction.
- Experienced drillers who are fully comfortable with sign notation may prefer to leave this off for a cleaner spec sheet display.

**Note:** This is a display preference only — enabling or disabling it has no effect on the pitch values stored in spec sheets or transmitted to a tethered drill press. [△ Verify with your Spectre team:](#) confirm the exact visual form of the directional indicator — whether it is an arrow (e.g. ↑ ↓ ← →), a word label (e.g. "Forward," "Right"), or a combined symbol+label.


## How Pitch Tiles Appear With and Without This Setting

Pitch Value	Display Off	Display On
Forward thumb pitch	+1/4"	↑ +1/4" (Forward)
Reverse thumb pitch	-1/4"	↓ -1/4" (Reverse)
Right lateral pitch	+1/8"	→ +1/8" (Right)
Left lateral pitch	-1/8"	← -1/8" (Left)
Zero pitch	0	0 (no indicator needed)

**Note:** The examples above illustrate the concept — the exact arrow style and label wording may differ in the app. [△ Verify with your Spectre team:](#) confirm the precise visual format and whether zero pitch tiles display any indicator at all.

## Enabling or Disabling Direction Indicators

1. Navigate to **Settings** from the top menu.
2. Locate the relevant settings section. [△ Verify with your Spectre team:](#) confirm the exact section name, consistent with the navigation path confirmed for 2.4.1 and 2.4.2.
3. Find the **Display +/- in Pitch Tiles** option.
4. Toggle the setting on or off according to your shop's preference. [△ Verify with your Spectre team:](#) confirm whether this is a toggle, checkbox, or other control.
5. Open any spec sheet to confirm the pitch tiles now display as expected.

6. The change takes effect immediately.  *Verify with your Spectre team: confirm auto-save behavior, consistent with other settings in this chapter.*



## How This Setting Relates to 2.4.1 and 2.4.2



Settings 2.4.1, 2.4.2, and 2.4.3 form a complete pitch display configuration set. Each addresses a different layer of how pitch values are communicated to the driller:

Setting	What It Controls	Primary Benefit
<b>2.4.1</b> — Right pitch as positive	Sign convention for lateral pitch	Matches press readout on the lateral axis
<b>2.4.2</b> — Forward thumb pitch as positive	Sign convention for forward/reverse pitch	Matches press readout on the forward/reverse axis
<b>2.4.3</b> — Display +/- in pitch tiles	Visual directional indicator on each tile	Makes direction unmistakable at a glance

Configure all three together during initial shop setup for the most consistent and error-resistant pitch display experience.

## Mobile and Tablet Considerations

On smaller screens — particularly smartphones near the recommended 8" minimum — pitch tiles are more compact and individual characters can be harder to read. Enabling direction indicators is especially worthwhile in these environments, where a  and  may be visually similar at a glance.

-  Tablet and desktop: directional indicators add useful clarity without significantly increasing tile size.
-  Mobile / small screen: strongly recommended — the visual indicator is more scannable than a sign character alone.

## Scope of This Setting

This setting is stored at the account level and syncs across all devices, consistent with 2.4.1, 2.4.2, and other settings in this chapter. [△ Verify with your Spectre team: confirm per-user vs. per-account/shop scope, consistent with the open question carried across all 2.4.x pages.](#)

## Related Sections

- 2.4.2 — Does your machine display forward thumb pitch as positive? Y/N
- 2.4.1 — Does your machine display right pitch as positive? Y/N
- 2.4.4 — Next setting in this chapter (*if applicable*)
- 4.x — Spec Sheet: entering and reviewing pitch values
- 1.x — Getting Started: initial shop setup checklist

**Tip:** If your shop trains new drillers regularly, leave this setting enabled by default. The directional indicators act as a built-in reminder of pitch direction until sign conventions become second nature — and they cost nothing for experienced drillers who already know what the signs mean.

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