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SELR20-S · DOCUMENTATION

SELR20-S Scale Calibration Guide

SELR20-S

For the integrated weighing indicator on the SELR20-S Electric Pallet Jack with Scale

Version	Language	Support
v1.0	EN	sales@sumachay.com

Scale Calibration Guide

This guide explains how to recalibrate the integrated weighing scale on the **SELR20-S Electric Pallet Jack**. The scale ships pre-calibrated from the factory and is accurate within ±0.5% of the displayed value. You will only need to recalibrate it after a heavy impact, after long-term storage, or as part of annual preventive maintenance.

The procedure takes about 15 to 20 minutes and requires one or more certified test weights. Read the entire guide before you begin.

When to calibrate

Recalibrate the scale in any of these situations:

- After receiving the jack and assembling it on site, before the first weighing-critical workflow.
- After any impact, drop, or collision involving the fork frame or load wheels.
- Annually as part of preventive maintenance.
- If readings drift by more than ±0.5% compared with a known certified weight.
- After replacing the load cell, the indicator, or any wiring between them.

If the scale is reading correctly against a known weight, **do not recalibrate**. Calibration overwrites the existing factory reference, so unnecessary calibration introduces error rather than correcting it.

Before you begin

You will need:

1. **A level surface.** The jack must sit on flat, hard flooring within 2° of level. A sloped or flexing surface will skew the readings.
2. **Certified test weights** totaling at or near the scale's maximum capacity. For SELR20-S, the maximum is **4400 lb (2000 kg)**. Test weights between **2000 lb and 4000 lb (900 to 1800 kg)** are recommended; the closer you get to the maximum, the better the full-scale calibration.
3. **An empty fork frame.** Remove all loads, straps, and packaging from the forks.
4. **A warmed-up indicator.** Turn the indicator on and let it run for at least **5 minutes** before starting calibration. This stabilizes the load cell output.
5. **Access to the rear calibration switch.** The save step requires you to physically tap the calibration switch on the back of the indicator housing.

Make sure no one stands on the forks or leans on the jack during calibration. Even small movements will prevent the stability indicator from settling.

Key and display reference

The indicator face translates between several languages on different production runs. This guide uses one consistent name per key. If your indicator face shows different wording, match the function listed here.

Keys

Name used in this guide	Other labels you may see	Function
TARE	Skin Removal, Peel, T	Confirms the current parameter; moves the cursor right in numeric entry.
ZERO	0, Z	Increments the digit at the cursor position in numeric entry.
#	M+, CAL, ENTER	Enters calibration mode when long-pressed during the power-on self-test; also confirms the current calibration step.
FUNCTION	F, FN, MODE	Quick recalibration shortcut. Skips parameter setup and jumps to zero-only recalibration.
***** (asterisk)	×	Quick recalibration shortcut. Skips parameter setup and jumps to full-scale-only recalibration.
Calibration switch	(rear of indicator)	Physical button on the back of the indicator housing. Tap to save calibration parameters and return to weighing mode.

Display states

Display	Meaning
`d 001` to `d 100`	Division (resolution). The smallest weight increment the scale will show. `d 005` means readings are rounded to the nearest 5.
`P 0` to `P 3`	Decimal point position. `P 0` shows whole numbers; `P 1` shows one decimal place; and so on.
`FULL`	Maximum capacity entry prompt. The display switches to a 6-digit numeric entry.
`noLoAd`	Zero-calibration ready. The forks must be empty.
`AdLoAd`	Full-scale-calibration ready. Place the test weight on the forks.
`End`	The current calibration sequence has completed. Save with the rear calibration switch.
▼ (stability indicator)	A small triangle marker on the display. Wait until it appears and holds steady before pressing **#** to confirm a reading.

Numeric entry: how the keys work together

Several calibration steps ask you to enter a multi-digit number, such as the maximum capacity or the weight of the test load. The keys behave as follows:

- The display shows six digits, like `0 0 0 0 0 0`. A small `▼` cursor sits under one digit at a time.
- Press **TARE** to move the cursor one position to the right.
- Press **ZERO** to increment the digit at the cursor by one. Press it again to count up. After 9, it rolls back to 0.
- When the displayed number matches the value you want, press **#** to confirm.

> **Example.** To enter `004400`:
>
> 1. The cursor starts under the leftmost digit. Press **TARE** three times to move it to the fourth position.
> 2. Press **ZERO** four times so the fourth digit reads `4`. 3. Press **TARE** to move to the fifth position. 4. Press **ZERO** four times so the fifth digit reads `4`. 5. Press **#** to confirm. The display now reads `004400`.

If you overshoot, keep pressing **ZERO** to roll around the digit back to the value you want.

Procedure A — Full calibration

Use this procedure on first setup, after a load cell or indicator change, or any time both the zero point and the span need to be re-established.

Step 1. Enter calibration mode

1. Confirm the indicator is powered off.
2. Press and hold the **#** key.
3. With **#** still held, turn the indicator on. Continue to hold **#** through the startup self-test.
4. When the self-test completes, release **#**. The display shows `d X` (where `X` is the current division value).

Step 2. Set the division value

The division value is the smallest increment the scale will show. For SELR20-S in pounds, `d 001` (1 lb resolution) is typical. For kilograms, `d 001` (1 kg) is typical.

1. Press **TARE** to cycle through the available values: `d 001`, `d 002`, `d 005`, `d 010`, `d 020`, `d 050`, `d 100`.
2. When the desired value is shown, press **#** to confirm.
3. The display advances to `P X`.

Step 3. Set the decimal point

The decimal point controls how many digits appear to the right of the decimal. For whole-pound or whole-kilogram readings, choose `P 0`.

1. Press **TARE** to cycle: `P 0`, `P 1`, `P 2`, `P 3`.
2. When the desired value is shown, press **#** to confirm.
3. The display advances to `FULL`.

Step 4. Enter the maximum capacity

This tells the indicator the scale's full range. For SELR20-S, enter `004400` if you want readings in pounds, or `002000` if you want readings in kilograms.

1. Press **TARE** once. The display switches to 6-digit numeric entry showing `0 0 0 0 0 0`.
2. Enter the value using the numeric entry procedure above.
3. When the correct number is shown, press **#** to confirm.
4. The display advances to `noLoAd`.

Step 5. Calibrate the zero point

1. Confirm the fork frame is empty and the jack is stationary.
2. Wait until the stability indicator `▼` appears and holds steady.
3. Press **#** to confirm the zero point.
4. The display advances to `AdLoAd`.

Step 6. Calibrate the full-scale span

1. Carefully place your certified test weight on the fork frame, centered between the forks.
2. Wait until the stability indicator `▼` appears and holds steady. The display will show the current raw reading; ignore it.
3. Press **TARE** to enter numeric entry mode. The display shows `0 0 0 0 0 0`.
4. Enter the **exact weight of the test load** using the numeric entry procedure. For example, enter `002000` for a 2000 lb test weight.
5. Confirm the stability indicator `▼` is still steady, then press **#** to confirm.
6. The display shows `End`.

Step 7. Save and exit

1. Tap the calibration switch on the **back of the indicator housing**.
2. The indicator returns to normal weighing mode.
3. Verify the calibration: remove the test weight, confirm the display reads `0`, then place the test weight back on and confirm the reading matches the test weight value within the division tolerance.

If the verification reading is off by more than one division, repeat the procedure with a fresh stability check at each step.

Procedure B — Quick zero-only recalibration

Use this when only the zero point has drifted (a common daily occurrence) and the full-scale span is still accurate.

1. Enter calibration mode as described in **Step 1** of Procedure A.
2. At any time before the display reaches `noLoAd`, press the **FUNCTION** key. The indicator skips all parameter setup and jumps directly to `noLoAd`.
3. Confirm the fork frame is empty. Wait for the stability indicator `▼` to settle.
4. Press **ZERO**. The display shows `End`.
5. Tap the rear calibration switch to save.

The original division, decimal, full-capacity, and full-scale span settings are preserved.

Procedure C — Quick full-scale-only recalibration

Use this when the zero is good but the span has drifted (rare, but possible after a load cell shift).

1. Enter calibration mode as described in **Step 1** of Procedure A.
2. At any time before the display reaches `AdLoAd`, press the ***** (asterisk) key. The indicator skips parameter setup and the zero step, and jumps directly to `AdLoAd`.
3. Place your certified test weight on the fork frame.
4. Wait for the stability indicator `▼` to settle.
5. Press **TARE**, then enter the exact weight of the test load using the numeric entry procedure.
6. Press **#** to confirm. The display shows `End`.
7. Tap the rear calibration switch to save.

The original division, decimal, full-capacity, and zero settings are preserved.

Troubleshooting

Symptom	Likely cause	What to do
Readings drift away from zero between weighings.	The jack moved or the floor is not level.	Park the jack on a flat surface. Run Procedure B (zero-only recalibration).
The stability indicator `▼` never appears.	Vibration in the environment, an unsteady operator, or a loose load cell connection.	Eliminate vibration. Check that no one is touching the jack. If the indicator still will not settle, contact support — the load cell wiring may need to be reseated.
The display rolls over during `FULL` entry (digits cycle 9 → 0).	The capacity you are trying to enter exceeds the indicator's range for the current division setting.	Reduce the division value (smaller `d` number) and try again, or enter the capacity in different units.
`#` does not enter calibration mode on power-on.	The rear calibration switch is locked, or **#** was not held long enough.	Unlock the rear calibration switch. Power off, press and hold **#**, then power on while continuing to hold **#** until the self-test completes.
Readings are negative at zero load.	The zero point has drifted below the load cell's no-load reference.	Run Procedure B (zero-only recalibration).
Readings are accurate at low weight but wrong at full load.	The full-scale span has drifted, often after a heavy impact.	Run Procedure C (full-scale-only recalibration) using a certified weight at or near 4400 lb.
Display shows `Err` or `OVL`.	An over-range condition, a hardware fault, or a calibration value that fell outside the valid range.	Power-cycle the indicator. If the error returns, do not attempt to recalibrate; contact support.
After saving, the readings still look wrong.	The rear calibration switch was not actually tapped, or one of the steps was confirmed before the stability indicator settled.	Repeat Procedure A from the start, with extra attention to stability at Step 5 and Step 6.

Support

If recalibration does not resolve a reading problem, or if the indicator shows a hardware fault, contact us before opening the housing or attempting a factory reset.

- **Email:** sales@sumachay.com
- **Response time:** within 24 hours, Canada business days.

When contacting support, please include:

1. The product model (SELR20-S) and the serial number printed on the chassis plate.
2. A short description of the symptom, including the readings you are seeing and the readings you expect.
3. The certified test weight you used and the temperature of the workspace, if known.
4. A photo of the indicator display showing the current state.

This information lets us diagnose remotely and ship a replacement load cell or indicator without an in-person visit when needed.

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