

## FAQ Note

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### 1250 Counts Taps Backwards

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**Problem:**

When the LTC raises, the 1250 counts down taps. When the LTC lowers, the 1250 counts up taps.

**Explanation:**

Depending upon how it is mechanically driven, the synchro transmitter may rotate clockwise or counter-clockwise when the LTC Taps are raised. The 1250 assumes that counter-clockwise rotation (facing the shaft end) means the LTC is moving in the raised direction. If the synchro transmitter rotates clockwise towards the raised taps, the 1250 will count taps backwards.

There are two solutions for this condition:

- A) Swapping the S1 lead with the S3 lead will “fool” the 1250 into thinking the synchro is rotating in the opposite direction.
- B) The sign of the Degrees Per Tap number programmed in OP21 can be changed, negative for positive, so that the 1250 counts negative degrees per tap instead of positive or vice-versa.

**Solution:**

The two solutions above require different procedures:

A.

- 1) Swap the S1 and S3 wires at the rear terminals A and C on the 1250.
- 2) Enter the Programming Mode – hold the MENU key until the display goes blank, then press the ENTER key.
- 3) Press the UP key until the display reads “OP27” and press the ENTER key. Scroll this number up or down to the present tap number and press the ENTER key.
- 4) Press the UP key until the display reads “OP28” and press the ENTER key. The display should read “Ld”. Press the ENTER key. The display will go blank for 2 seconds and return to “OP28”.
- 5) Press the DOWN key until the display reads “OP 0”. Press the ENTER key. The display will read “run”. Press the ENTER key again. The 1250 should be reading the correct tap.
- 6) Move the LTC up or down to see if the 1250 counts the taps in the proper direction.

B)

- 1) Enter the Programming Mode – hold the MENU key until the display goes blank, then press the ENTER key.
- 2) Press the UP key until the display reads “OP21” and press the ENTER key. Change the sign of this value from positive to negative or vice-versa and ENTER. The display should read “OP21”.
- 3) Repeat steps #3 through #6 above.