

Cci Trend Pullback

Expert Advisor Documentation

PLATFORM	TYPE	TIMEFRAME	WEBSITE
MetaTrader 5 (MT5)	Trend-Following Pullback	M15 – H1	www.algotbot.live

⚠ Important Disclaimer This document is for educational and informational purposes only. It does not constitute financial or investment advice. Trading forex, CFDs, and other leveraged instruments involves substantial risk of loss and is not suitable for all investors. Past backtest performance does not guarantee future results. Never trade with capital you cannot afford to lose.

Overview

Cci Trend Pullback is a trend-following pullback strategy that only trades in the direction of the prevailing drift, then waits for a temporary counter-trend dip to offer a better price. It layers two independent, objective decision blocks and frames every trade with volatility-based risk control:

- **EMA Trend Filter** — a fast EMA above a slow EMA defines an uptrend; below defines a downtrend. Trades are taken only with this bias, so Cci Trend Pullback never fights the larger trend.
- **CCI Pullback Gate** — the Commodity Channel Index measures how far price has stretched from its mean. Inside an established trend the strategy waits for CCI to dip into the *opposite* extreme (a pullback that shakes out weak hands) and then enters the moment CCI snaps back through the threshold — momentum resuming with the trend.
- **ATR Risk Framing** — the Average True Range sizes a protective stop and a wider target, giving a positive reward-to-risk profile that adapts to current volatility.

The idea is simple: trends rarely move in a straight line — they breathe. Buying the discounted pullback only while the larger trend is up, and entering on the snap-back rather than on the dip itself, keeps each trade aligned with momentum while avoiding a falling knife. False signals are filtered three ways: trend agreement, a CCI extreme that must first be reached, and a confirming candle body.

The EA operates on a **single timeframe** — every calculation uses the chart the EA is attached to — so it runs on whatever timeframe you choose at attach or backtest time. It is symbol- and timeframe-agnostic, and is well suited to liquid FX pairs (EUR/USD, GBP/USD) or gold on M15–H1.

One position at a time. Cci Trend Pullback manages a single position per magic number. While a trade is open it does not add new entries; it only watches for a trend flip against the position, and evaluates the next fresh signal after the position has closed.

How It Works

Cci Trend Pullback acts **once per completed bar**. When the current bar's time advances, the just-closed bar is evaluated — all indicators are read on that finished candle, so signals never repaint mid-bar.

1. Trend Filter (EMA)

Two exponential moving averages of the close define direction:

- **Uptrend** when `FastEma > SlowEma` — only long entries allowed.
- **Downtrend** when `FastEma < SlowEma` — only short entries allowed.

If the inputs are inverted (a fast period set at or above the slow period), the EA automatically nudges the slow EMA to `FastEma + 1` so the filter still makes sense.

2. Pullback Gate (CCI)

The Commodity Channel Index is built from the typical price and its mean absolute deviation:

```
TP = (High + Low + Close) / 3
CCI = (TP - SMA(TP)) / (0.015 × mean absolute deviation)
```

Within an established trend the strategy requires CCI to reach the *opposite* extreme first, then snap back through the threshold:

- **Long setup:** in an uptrend, the prior bar's CCI dipped to `-CciThreshold` or lower (an oversold pullback), and the current bar's CCI has snapped back *above* `-CciThreshold`.
- **Short setup:** in a downtrend, the prior bar's CCI popped to `+CciThreshold` or higher (an overbought bounce), and the current bar's CCI has rolled back *below* `+CciThreshold`.

3. Entry Confirmation (candle body)

A final filter demands the signal candle close in the trade's direction — a bullish body (`Close > Open`) for longs, a bearish body (`Close < Open`) for shorts. This confirms momentum is actually resuming before

capital is committed.

Long entry — all conditions together

1. Fast EMA is above Slow EMA (uptrend). 2. Previous bar's CCI ≤ -100 (oversold pullback reached). 3. Current bar's CCI > -100 (momentum snapping back up). 4. The just-closed candle is bullish. → A buy is sent at the Ask.

4. Stop-Loss & Take-Profit (ATR)

Risk is framed by the Average True Range at the moment of entry, so both distances widen in volatile conditions and tighten in quiet ones:

Long: SL = Entry - ATR × AtrSlMult TP = Entry + ATR × AtrTpMult
Short: SL = Entry + ATR × AtrSlMult TP = Entry - ATR × AtrTpMult

With the defaults ($\text{AtrSlMult} = 1.5$, $\text{AtrTpMult} = 2.5$) the target sits farther away than the stop, giving a reward-to-risk ratio of roughly **1.67 : 1** before spread and slippage.

5. Trade Management & Exit

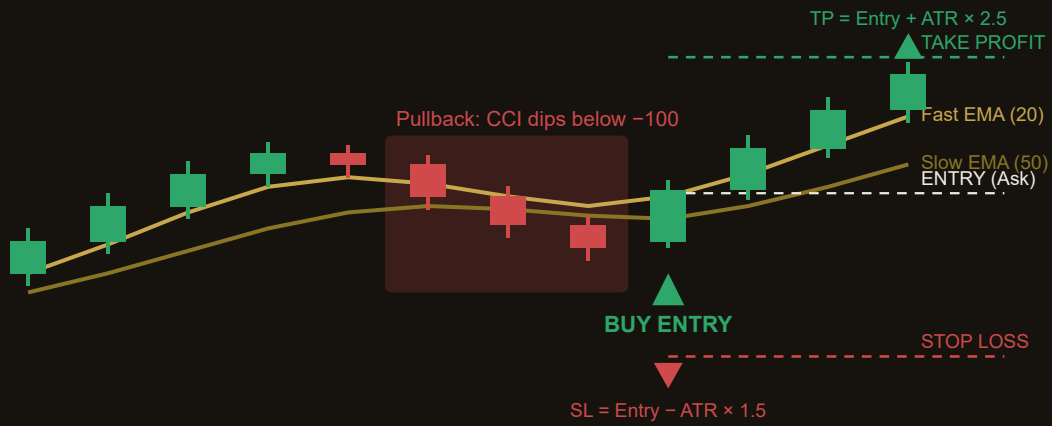
A trade is closed one of three ways:

- **Take-profit** hit at the ATR-based target.
- **Stop-loss** hit at the ATR-based protective stop.
- **Trend flip** — if the EMA trend reverses against an open position (a long while the trend turns down, or a short while it turns up), the EA closes the position to avoid holding a stale trade against the new direction.

Strategy in Action

The illustration below shows an example of how the strategy identifies a setup and triggers its entry and exit. This is a simplified, illustrative example for educational purposes — not real market data.

Uptrend → CCI oversold pullback → snap-back long entry



Illustrative example only. Actual market behaviour varies.

Parameters

Every input below is exposed on the EA's properties dialog. Defaults mirror the strategy's built-in defaults.

Parameter	Default	Description
FastEma	20	Fast EMA period. With the slow EMA it defines trend direction; a shorter value reacts more quickly. Range 5–50, step 1.
SlowEma	50	Slow EMA period defining the baseline trend — fast above slow marks an uptrend. Range 20–150, step 5. Auto-corrected to <code>FastEma + 1</code> if set at or below the fast period.
CciPeriod	20	Look-back for the Commodity Channel Index pullback gate. Range 7–40, step 1.
CciThreshold	100.0	CCI extreme (±) that price must first reach before a snap-back entry is permitted. Range 50–200, step 10.
AtrPeriod	14	ATR look-back used to size the stop-loss and take-profit. Range 7–28, step 1.
AtrSMult	1.5	Stop-loss distance = ATR × this multiple. Range 0.5–4.0, step 0.1.
AtrTpMult	2.5	Take-profit distance = ATR × this multiple. Range 1.0–6.0, step 0.1.
Lots	0.10	Fixed trade volume in lots. Range 0.01–1.0, step 0.05.
Magic	1023	Unique identifier tagging this EA's orders, so it manages only its own positions.

Recommended Settings

The defaults are a balanced starting point tuned for liquid instruments. Suggested markets and timeframes:

- **Symbols:** EUR/USD, GBP/USD, or gold (XAU/USD) — liquid instruments with clean trends.
- **Timeframe:** M15 to H1. Lower timeframes produce more signals but a lower signal-to-noise ratio.
- **Risk framing:** keep `AtrTpMult` above `AtrSMult` to preserve a positive reward-to-risk profile.

Tip — optimise before going live. Because the strategy is symbol- and timeframe-agnostic, run the MT5 Strategy Tester over your chosen instrument and timeframe to tune `FastEma`, `SlowEma`, `CciThreshold`, and the two ATR multiples. Validate on out-of-sample data before risking real capital, and size `Lots` to your account so a stop-out stays within your per-trade risk budget.

How to Install on MetaTrader 5

- 1 Copy `CciTrendPullback.ex5` to your MT5 `MQL5\Experts\` folder
- 2 Restart MetaTrader 5 and refresh the Navigator panel

- 3 Drag the EA onto a chart matching the recommended symbol and timeframe
- 4 Configure the input parameters and click **OK**
- 5 Enable **Algo Trading** in the MT5 toolbar

Risk Warning

Trading foreign exchange, CFDs, and other leveraged financial instruments involves substantial risk of loss and is not suitable for all investors. The strategies and tools described in this document are provided for **educational purposes only** and do not constitute financial advice, investment recommendations, or solicitation to trade. Always consult a qualified financial adviser before making trading decisions. Past backtest performance is not indicative of future results.