

# Pivot Pullback Thrust

Expert Advisor Documentation

## PLATFORM

MetaTrader 5 (MT5)

## TYPE

Price-Action Trend Continuation

## TIMEFRAME

H1-H4

## WEBSITE

[www.algotbot.live](http://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

**Pivot Pullback Thrust** is a pure price-action, trend-continuation Expert Advisor that uses *no indicators of any kind*. Every decision is derived directly from raw OHLC bars on the chart's primary timeframe, making the logic transparent and free of lagging smoothing.

The strategy reads market structure the way a discretionary price-action trader does. It locates confirmed swing pivots, establishes whether the market is making higher highs and higher lows (an uptrend) or lower highs and lower lows (a downtrend), waits for a shallow counter-trend pullback, and then enters only when a high-momentum candle breaks the pullback in the direction of the established trend. The result is a "buy the dip / sell the rally" continuation system that refuses to chase price.

The approach is built on four pillars — **Structure**, **Pullback**, **Thrust**, and **Risk** — each described in detail below.

# How It Works

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## 1. Structure — reading the trend from fractal pivots

The EA maintains a rolling list of closed bars and confirms **fractal swing pivots**: a bar is a swing high when its high is strictly greater than the highs of the `SwingStrength` bars on each side; a swing low is the mirror image on lows. Only confirmed pivots count, so a swing is never "seen" until enough bars have printed on both sides to validate it.

From the two most recent confirmed highs and lows the EA derives market structure:

- **Uptrend** — the last swing high is above the previous swing high *and* the last swing low is above the previous swing low (higher highs + higher lows).
- **Downtrend** — the last swing high is below the previous swing high *and* the last swing low is below the previous swing low (lower highs + lower lows).

If structure is mixed or incomplete, no trade is considered — the EA only acts when the break-of-structure read is unambiguous.

## 2. Pullback — demanding a counter-move first

Within the established trend the EA inspects a short **trigger window** of the most recent `TriggerLookback` bars and requires at least one opposing candle:

- In an **uptrend**, it must see a bearish (down) bar in the window — evidence of a *dip* to buy.
- In a **downtrend**, it must see a bullish (up) bar in the window — evidence of a *rally* to sell.

This filter ensures the EA is entering on a retracement rather than blindly chasing an extended move.

## 3. Thrust — the momentum-breakout entry trigger

An entry fires only on a genuine **momentum candle**. The current (just-closed) bar must satisfy two conditions simultaneously:

- **Strong body** — the candle body is at least `BodyRatio` of its own high-to-low range.
- **Expanding range** — the candle's range is greater than or equal to the prior bar's range.

On top of momentum, the thrust must **break the pullback window** in the trend direction and close in agreement:

- **Long** — uptrend, a recent dip present, a bullish candle, and its close above the highest high of the trigger window.
- **Short** — downtrend, a recent rally present, a bearish candle, and its close below the lowest low of the trigger window.

**Note:** Only one position per magic number is held at a time. While a trade is open the EA stops scanning and lets the position run to its own stop-loss or take-profit — there is no averaging, grid, or pyramiding.

#### 4. Risk — structure-based stop and fixed reward-to-risk target

Protective levels are anchored to real support/resistance, not to arbitrary point counts:

- **Stop loss (long)** — placed just beyond the lower of the breakout bar's low and the last swing low, minus a buffer of `StopBufferFactor × thrust range`.
- **Stop loss (short)** — placed just beyond the higher of the breakout bar's high and the last swing high, plus the same buffer.
- **Take profit** — set at a fixed `RewardRisk` multiple of the measured stop distance, so the target scales automatically with volatility.

The measured risk is the distance from entry to the raw stop; if that distance is not positive the signal is discarded. Position size is fixed by the `Lots` input.

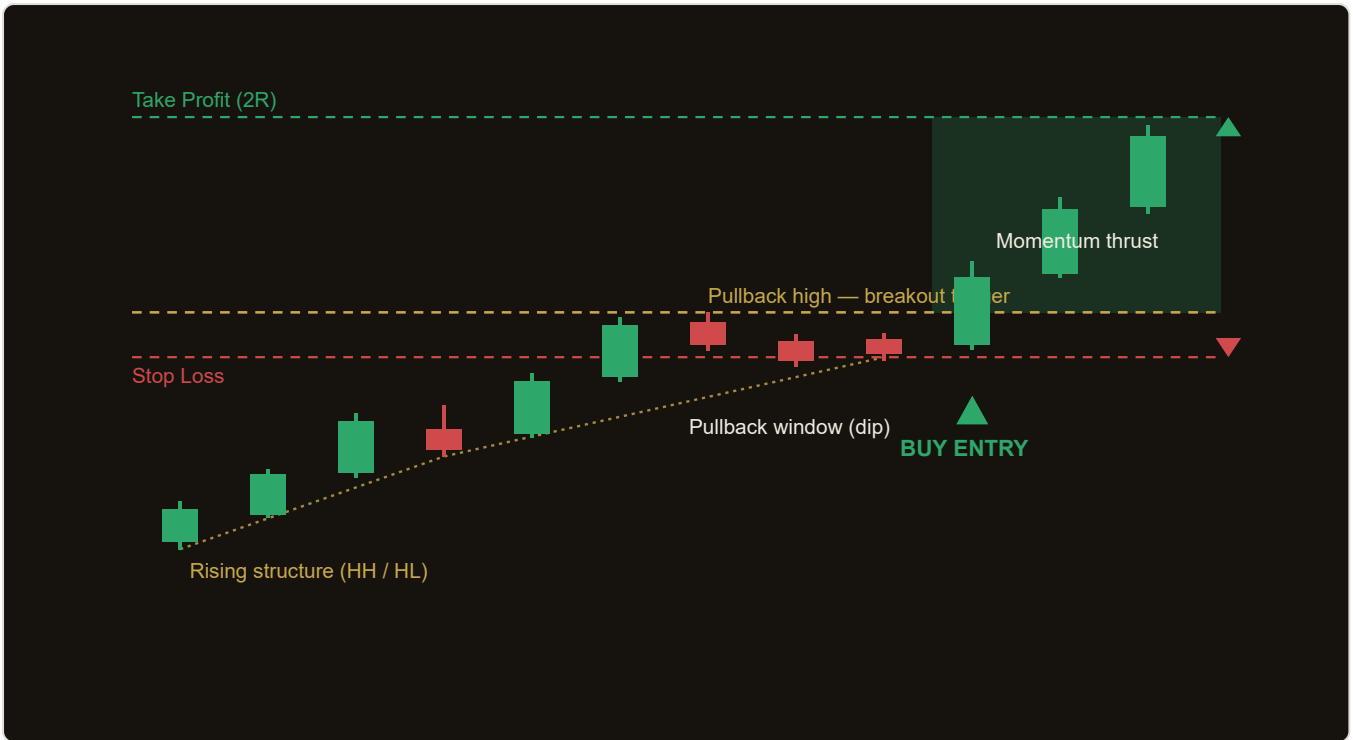
```
// Long entry conditions (all must be true)
uptrend AND recent dip in window AND bullish thrust candle
      AND close > highest high of trigger window

entry = Ask
stop  = min(breakoutLow, lastSwingLow) - StopBufferFactor * range
risk  = entry - stop
tp    = entry + RewardRisk * risk
```

## Strategy in Action

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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.



*Illustrative example only. Actual market behaviour varies.*

## Parameters

| Parameter        | Default | Description   |
|------------------|---------|---|
| SwingStrength    | 3       | Number of strictly weaker bars required on each side of a bar for it to qualify as a confirmed fractal swing pivot. Range 2–6 (step 1). Higher values demand more significant pivots. |
| TriggerLookback  | 3       | Length of the recent pullback / breakout window scanned for a counter-move and for the high/low the thrust must break. Range 2–6 (step 1).  |
| BodyRatio        | 0.55    | Minimum candle body as a fraction of its high-to-low range for the bar to count as a momentum thrust. Range 0.30–0.80 (step 0.05).  |
| RewardRisk       | 2.0     | Take-profit distance expressed as a multiple of the measured stop-loss distance (reward-to-risk ratio). Range 1.0–4.0 (step 0.5).   |
| StopBufferFactor | 0.5     | Extra stop-loss buffer beyond the breakout bar / last swing, as a fraction of the thrust candle's range. Range 0.1–1.5 (step 0.1).  |
| Lots             | 0.10    | Fixed order volume in lots for each trade. Range 0.01–1.0 (step 0.05).  |
| Magic            | 7340    | Magic number identifying this EA's positions. Ensures the one-position-at-a-time rule and avoids interfering with other EAs on the same account.                                      |

## Recommended Settings

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The defaults above provide a balanced starting point. Because the strategy is purely structural and indicator-free, it adapts to any liquid instrument, but the following guidance helps tune it to your market and trading style.

### TIMEFRAME & SYMBOL

- **Timeframes:** H1 to H4 generally produce cleaner swing structure and fewer false breakouts than very low timeframes.
- **Symbols:** trending, liquid markets — major FX pairs and gold — suit a continuation breakout model best.

### TUNING GUIDANCE

- **SwingStrength** — increase (4–6) to trade only major structure on noisy instruments; decrease (2) for more frequent, smaller-degree signals.
- **BodyRatio** — raise toward 0.70–0.80 to demand more decisive thrust candles (fewer, higher-quality entries); lower for more signals.
- **RewardRisk** — 2.0 balances win rate and payoff; raise it for a lower win-rate / higher-payoff profile, lower it for more frequent target hits.
- **StopBufferFactor** — widen on volatile instruments so normal noise does not clip the structural stop.

#### Example configuration — EUR/USD, H1

SwingStrength = 3, TriggerLookback = 3, BodyRatio = 0.60, RewardRisk = 2.0, StopBufferFactor = 0.5, Lots = 0.10.  
This targets clean H1 continuation breakouts with a 2:1 reward-to-risk target and a structural stop buffered by half the thrust candle's range.

**Tip:** Always run the EA in the MT5 Strategy Tester on your chosen symbol and timeframe, and forward-test on a demo account, before committing real capital. Optimise **BodyRatio** and **SwingStrength** together — they jointly control signal frequency and quality.

## How to Install on MetaTrader 5

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- 1 Copy `PivotPullbackThrust.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**

## Risk Warning

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