

Hikkake Trap Reversal

Expert Advisor Documentation

PLATFORM

MetaTrader 5 (MT5)

TYPE

Price-Action Reversal

TIMEFRAME

M15 / M30

WEBSITE

www.algotbot.live

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Overview

Hikkake Trap Reversal is a pure price-action Expert Advisor. It uses **no indicators of any kind** — no moving averages, no RSI, no ATR — only the raw geometry of recently closed candles. The EA trades the classic **Hikkake** pattern: an inside-bar false-breakout trap that springs back in the opposite direction.

The edge is behavioural. Price coils into a tight inside bar inside a larger “mother” bar. The next bar pokes the *wrong* way, baiting breakout traders into a fake move. When that breakout fails and price snaps back through the coil with momentum, those trapped traders are forced to exit — and their stops fuel the genuine move in the other direction. Hikkake Trap Reversal waits for that confirmed snap-back, then enters at market in the direction of the real move.

Because every distance the EA uses is expressed as a *fraction of the candles' own ranges* (and the target as a reward-to-risk multiple), the strategy scales automatically to any symbol, timeframe, or volatility regime — it never needs to know the instrument's point size.

How It Works

On each newly closed bar the EA reads the three most-recently closed candles — **Mother** → **Inside** → **Fake** — and tests them for a valid trap. When a trap is found it is “armed” and the EA then waits a limited number

of bars for a confirmed reversal trigger before entering.

1. The Setup — detecting the trap

- **Mother bar:** the oldest of the three. It defines the local support/resistance box.
- **Inside bar:** must be fully **contained** within the mother bar (its high below the mother's high and its low above the mother's low) *and* **tight** — its range must be no more than `InsideMaxFrac` of the mother's range. This is the coil whose high and low everyone watches for the breakout.
- **Fake bar:** the most recent bar, which pokes the wrong way:
 - **Bullish trap** — the fake bar makes a *lower high AND a lower low* than the inside bar (a downside fake that traps shorts). The EA arms a **LONG**, with the inside bar's high as the level to reclaim.
 - **Bearish trap** — the fake bar makes a *higher high AND a higher low* than the inside bar (an upside fake that traps longs). The EA arms a **SHORT**, with the inside bar's low as the level to lose.

2. The Trigger — confirming the snap-back

Once armed, the trigger must appear within `ConfirmBars` bars, otherwise the setup is abandoned. A valid trigger requires a later bar to:

- **Close back through the inside-bar level** — close *above* the inside high for a long, or *below* the inside low for a short; and
- **Be a momentum candle** — its body must be at least `MomentumBodyFrac` of its full range, and pointing in the trade direction (a bullish body for a long, a bearish body for a short).

This momentum gate ensures the entry is a genuine conviction reversal, not just a wick poking through the level. When both conditions are met the EA enters **at market** (Ask for a long, Bid for a short).

3. Risk — stop, target and scaling

The stop sits a structural buffer beyond the **trap extreme** — the “far wall” of the trap, which is exactly where the thesis is proven wrong:

- **Long:** stop = the lower of the inside-bar low and the fake-bar low, minus a buffer.
- **Short:** stop = the higher of the inside-bar high and the fake-bar high, plus a buffer.

The buffer is `BufferFrac × (inside-bar range)`. The take-profit is placed at `RewardRatio × risk` away from entry, where *risk* is the entry-to-stop distance. Both are derived from the candles themselves, so the setup self-scales to any market.

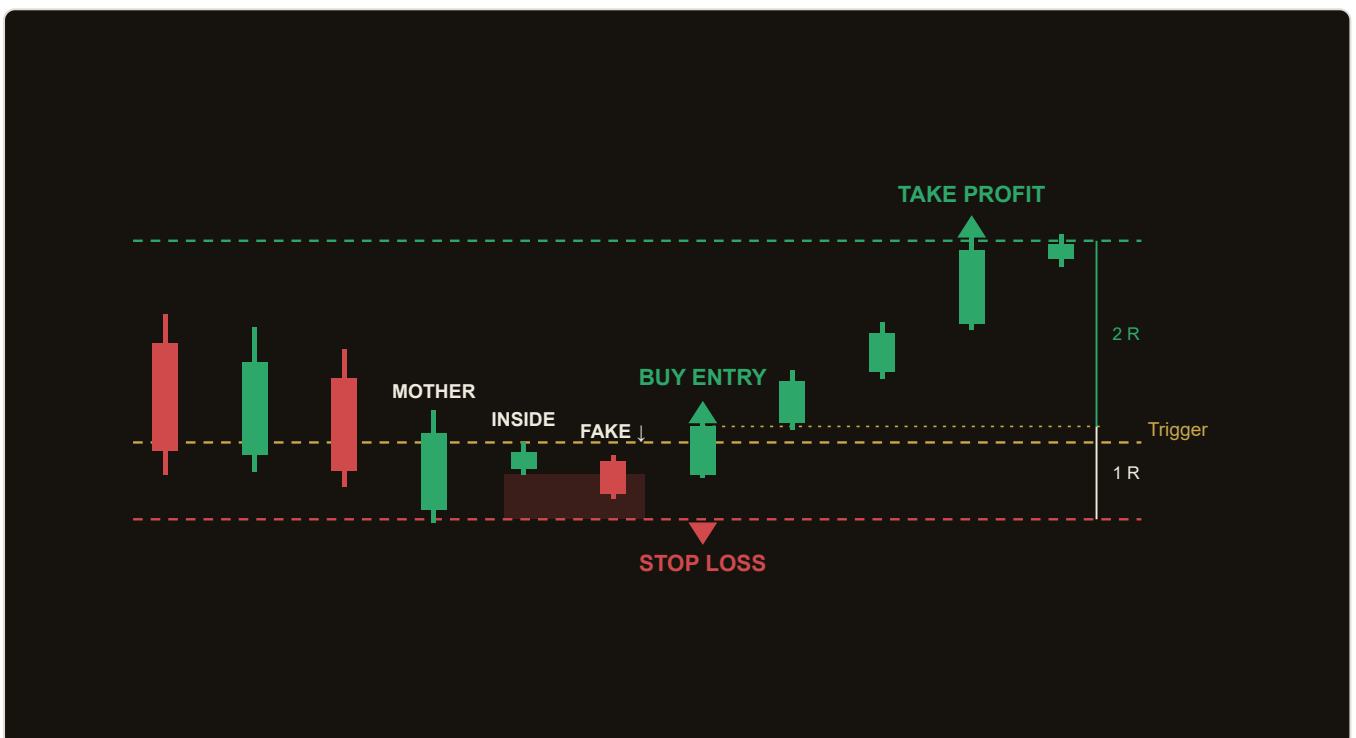
Note: The EA holds at most one position per symbol at a time (matched by its `Magic` number). While a trade is open it disarms any pending setup and lets the fixed stop-loss and take-profit manage the exit — there is no trailing or averaging.

Worked example — bullish trap

A tight inside bar coils inside a larger mother bar. The next (fake) bar prints a lower high and lower low, baiting shorts. Two bars later a strong bullish candle closes back above the inside high with a body that is 60% of its range (\geq the 0.50 default). The EA buys at market. The stop is placed just below the fake bar's low (the far wall), and the target is set at $2\times$ that risk distance above entry (`RewardRatio` = 2.00).

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.



Illustrative example only. Actual market behaviour varies.

Parameters

Parameter	Default	Description
InsideMaxFrac	0.80	Maximum inside-bar range as a fraction of the mother-bar range (coil tightness). Lower values demand a tighter coil. Range 0.30–1.00, step 0.05.
ConfirmBars	3	Number of bars within which the reversal trigger must appear before the armed setup is abandoned. Range 1–8, step 1.
MomentumBodyFrac	0.50	Minimum body-to-range ratio of the trigger candle (the momentum gate). Higher values require a more decisive reversal candle. Range 0.20–0.90, step 0.05.
BufferFrac	0.15	Stop buffer placed beyond the trap extreme, as a fraction of the inside-bar range. Range 0.00–0.60, step 0.05.
RewardRatio	2.00	Take-profit distance as a multiple of the structural stop distance (reward-to-risk). Range 0.50–5.00, step 0.25.
Lots	0.10	Fixed trade volume in lots. Range 0.01–1.00, step 0.05.
Magic	7314	Magic number used to identify and manage this EA's own positions. Range 0–9,999,999, step 1.

Recommended Settings

Because it feeds on stop-hunts and failed breakouts, the strategy is best suited to **whippy, false-breakout-prone instruments** where coils tend to snap back quickly.

- **Symbols:** GBPJPY or XAUUSD (Gold) — volatile instruments where false breakouts out of coils are common.
- **Timeframe:** M15 or M30.
- **Starting parameters:** the defaults above are a balanced baseline.

Tuning tips:

- Tighten `InsideMaxFrac` (e.g. 0.60) to demand cleaner, tighter coils and fewer but higher-quality setups.
- Raise `MomentumBodyFrac` (e.g. 0.60–0.70) on noisier symbols to filter out weak, wicky triggers.
- Increase `BufferFrac` on instruments with frequent stop-hunt spikes so the stop sits clear of the trap wall.
- Adjust `ConfirmBars` to control how long the EA waits for the snap-back before walking away from a setup.

Position sizing: `Lots` is a fixed volume and does not scale to account equity or risk. Size it appropriately for your balance and the instrument's value-per-point before trading live.

How to Install on MetaTrader 5

- 1 Copy `HikkakeTrapReversal.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.