

Turtle Soup Reversal

Expert Advisor Documentation

PLATFORM	TYPE	TIMEFRAME	WEBSITE
MetaTrader 5 (MT5)	Liquidity-Raid Reversal (Price Action)	M15 – H1	www.algotbot.live

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Overview

Turtle Soup Reversal is a pure price-action Expert Advisor built on the ICT “Turtle Soup” concept — a liquidity-raid reversal that uses no indicators whatsoever. It trades the failure of an obvious breakout.

Resting liquidity, in the form of stop orders, pools just beyond a recent swing high or swing low. When price spikes *through* that level it trips those stops — this is the “raid.” If price then snaps back and *closes inside* the prior range, the breakout has failed. That single raid candle becomes a reversal order block: institutions filled their orders against the freshly trapped breakout traders.

Turtle Soup Reversal fades the raid in the opposite direction — selling after a swept swing high, buying after a swept swing low — placing its stop just beyond the swept extreme and targeting a fixed reward-to-risk multiple. The EA evaluates setups only on newly-closed bars and holds at most one position at a time, letting the stop-loss and take-profit manage the exit.

Why “Turtle Soup”? The name pokes fun at the classic “Turtle” breakout traders: when their breakout entries are quickly reversed, their stops become the soup — the liquidity that fuels this reversal trade.

How It Works

1. Locate resting liquidity

On each newly-closed bar the EA scans back over the `LiquidityLookback` window for the most recent **confirmed swing**. A swing high (or low) is a fractal: a bar whose high (low) is strictly greater (lower) than the `SwingLookback` bars on *both* sides. The high of that swing is treated as buy-side liquidity; the low of a swing low is sell-side liquidity.

2. Confirm the liquidity is still resting

The level only matters if it has not already been taken. The EA checks every bar between the swing and the raid candle and requires that none of them exceeded the level — for a swing high, no intervening high may rise above it; for a swing low, no intervening low may dip below it.

3. Detect a genuine raid (failed breakout)

The just-closed candle (shift 1) is the candidate raid / order block. A short setup requires all of:

- **Penetration:** the raid high pierces above the level by at least $\text{MinRaidFraction} \times \text{raidRange}$ — a barely-touching wick does not count.
- **Rejection:** the raid candle *closes back below* the level (the breakout failed).
- **Bearish body:** the close is below the open, confirming the reversal pressure.

A long setup is the mirror image: the raid low pierces *below* a swept swing low by the minimum fraction, then closes back *above* the level with a bullish body.

4. Entry, Stop Loss & Take Profit

When a valid setup is found and no position is already open for this EA's magic number, a market order is sent immediately:

- **Short entry** at the Bid; **stop loss** placed at $\text{raidHigh} + \text{BufferFraction} \times \text{raidRange}$ (just above the swept extreme).
- **Long entry** at the Ask; **stop loss** placed at $\text{raidLow} - \text{BufferFraction} \times \text{raidRange}$ (just below the swept extreme).
- **Take profit** set at a fixed reward-to-risk multiple: $\text{TP} = \text{entry} \pm \text{TpRewardRisk} \times \text{risk}$, where `risk` is the entry-to-stop distance.

If the computed risk is zero or negative the order is skipped. Once filled, the position is managed entirely by its SL/TP — the EA opens no further trades until that position closes.

Worked example — short setup

Suppose a swing high rests at 1.10500 and the just-closed raid candle has High = 1.10560, Low = 1.10460 (range = 100 points) and closes at 1.10470 (below the level, bearish body). With `MinRaidFraction = 0.10` the required penetration is 10 points — the 60-point pierce qualifies. With `BufferFraction = 0.15` the stop sits at 1.10560 + 15 points = 1.10575. If the Bid entry is 1.10470, risk \approx 105 points and with `TpRewardRisk = 2.0` the take profit is placed roughly 210 points below at \sim 1.10260.

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
SwingLookback	2	Bars required on each side of a bar for it to qualify as a confirmed swing (fractal). Range 1–6, step 1.
LiquidityLookback	20	How far back (in bars) to scan for the liquidity pool — the swing high/low to be raided. Range 8–60, step 2.
BufferFraction	0.15	Stop-loss buffer placed beyond the swept extreme, expressed as a fraction of the raid candle's range. Range 0.00–1.00, step 0.05.
TpRewardRisk	2.0	Take-profit reward-to-risk multiple. Range 1.0–5.0, step 0.5.
MinRaidFraction	0.10	Minimum raid penetration beyond the level, as a fraction of the raid candle's range, so a barely-touching wick does not count as a genuine stop raid. Range 0.00–0.80, step 0.05.
Lots	0.10	Trade volume in lots. Range 0.01–1.00, step 0.05.
Magic	720100	Magic number used to tag and manage this EA's positions, keeping them isolated from other EAs and manual trades.

Recommended Settings

Turtle Soup Reversal is a structure-based reversal model and works best on liquid instruments where swing highs and lows are well respected.

- **Symbols:** major FX pairs (EUR/USD, GBP/USD, USD/JPY) and liquid indices/metals such as XAU/USD.
- **Timeframe:** M15 to H1. Lower timeframes generate more raids but more noise; higher timeframes give cleaner, less frequent setups.
- **SwingLookback:** 2–3 for responsive intraday swings; raise toward 4–6 to require more significant, slower-forming swings.
- **LiquidityLookback:** keep near the default 20 on M15–H1; widen it to scan deeper for older resting liquidity.
- **MinRaidFraction:** 0.10–0.20 filters out shallow wicks. Increase it in choppy conditions to demand a more decisive sweep.
- **TpRewardRisk:** the 2.0 default balances win rate against payoff. Lower it (1.0–1.5) for a higher hit rate, raise it (3.0+) for larger but rarer winners.

Tip: Because the stop is anchored to the swept extreme via `BufferFraction`, position size should be chosen so that the resulting per-trade risk fits your account's risk budget. Always validate any parameter set on a demo account and an out-of-sample backtest before going live.

How to Install on MetaTrader 5

- 1 Copy `TurtleSoupReversal.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

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