

05 - Complete Settings

Complete input reference for MetaTrader 5

01 - Reference Levels

Defines which highs and lows are treated as liquidity levels. Without a clean reference level, there is no valid setup.

Parameter	Default / options	What it does	Practical use
ReferenceLevelMode	ENUM_REFERENCE_LEVEL_MODE_TS Default: Pivot 0 = Pivot 1 = HighestLowest 2 = PreviousDay 3 = PreviousWeek 4 = AsiaSession 5 = LondonSession 6 = NewYorkSession	Defines which levels the EA searches for.	Pivot is the best default choice. Session or daily levels are useful when you deliberately want to trade that specific liquidity.
PivotLeftBars	int Default: 5	Number of candles to the left of the pivot that must be lower or higher.	Higher values create fewer but stronger levels. On M30, 4 to 7 is a common range.
PivotRightBars	int Default: 5	Number of closed candles to the right required to confirm the pivot.	Important against lookahead. Higher values confirm later but more cleanly.
LookbackBars	int Default: 50	How far back the EA searches for levels.	Too small finds too few levels; too large may include old irrelevant levels.
MinLevelAgeBars	int Default: 3	Minimum age of a level before it may be swept.	Prevents fresh micro levels from being traded immediately.
UseOnlyUntouchedLevels	bool Default: true	Uses only levels that have not been cleanly traded through since they were formed.	Usually keep enabled. It improves the quality of liquidity levels.
MinSwingSizeATR	double Default: 0.0	Minimum swing size in ATR multiples.	0 disables the filter. Values around 0.8 to 1.2 filter out small, weak swings.

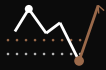
02 - Sweep Logic

Determines when a level has truly been swept. The EA never trades the breakout itself.

Parameter	Default / options	What it does	Practical use
MinSweepPoints	double Default: 5.0	Minimum distance price must move above or below the level.	Measured in symbol points. Must be adjusted per broker and symbol.
MinSweepATRMultiplier	double Default: 0.2	Minimum sweep size as a fraction of ATR.	Makes the sweep volatility-based. 0.2 means roughly 20 percent of one ATR.
UseATRForSweep	bool Default: true	Uses ATR in addition to the fixed point distance.	Keep enabled. The EA then uses the stricter value from points and ATR.
MaxBarsAfterSweepForReclaim	int Default: 5	Number of candles allowed after the sweep for the reclaim.	Turtle Soup should react quickly. On M30, 2 to 5 is common.
RequireSweepWickRejection	bool Default: false	Requires the sweep candle to show a rejection wick.	Useful for Gold, DAX and Nasdaq. On EURUSD it may be too strict depending on data quality.
RequireCloseBackInsideRange	bool Default: true	Requires a reclaim candle to close back inside the level.	Keep enabled if you do not want breakout trades.

03 - Reclaim Logic

After the sweep, the market must reclaim the level. Only then does a Turtle Soup setup exist.



Parameter	Default / options	What it does	Practical use
EntryConfirmationMode	ENUM_ENTRY_CONFIRMATION_MODE_TS Default: CloseConfirmation 0 = CloseConfirmation 1 = IntrabarTouch	Defines whether the reclaim is confirmed by candle close or by intrabar touch.	CloseConfirmation is more stable and usually better for backtests.
RequireBullishBearishReclaimCandle	bool Default: true	Long setups require a bullish reclaim candle; short setups require a bearish reclaim candle.	Usually keep enabled for better candle quality.
RequireReclaimWickRejection	bool Default: false	Requires additional wick rejection on the reclaim candle.	Often leave disabled; otherwise signals may arrive too late.
MinBodyPercent	double Default: 40.0	Minimum candle body size relative to the full candle range.	Higher values require stronger reclaim candles. Too high can filter good setups.
MaxReclaimBars	int Default: 5	Additional limit for how old the reclaim may be.	The EA effectively uses the stricter time window. 2 to 4 is conservative.

04 - Entry

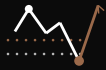
Defines how the EA enters after a valid reclaim.

Parameter	Default / options	What it does	Practical use
EntryMode	ENUM_ENTRY_MODE_TS Default: MarketAfterCloseReclaim 0 = MarketAfterCloseReclaim 1 = PendingLimitAtSweptLevel 2 = BreakReclaimCandle 3 = RetestEntryAtLevel	Defines the entry method after a confirmed reclaim.	Market is simple. Limit or retest can give a better price but may miss trades.
PendingOrderExpirationBars	int Default: 3	Number of candles after which pending orders expire.	Keep short. Turtle Soup setups lose their edge quickly.
AllowMarketOrders	bool Default: true	Allows market entries.	Must be enabled when EntryMode uses MarketAfterCloseReclaim.
AllowPendingOrders	bool Default: true	Allows pending orders.	Must be enabled when using limit, stop or retest entries.

05 - Stop Loss

Controls stop placement. The EA also checks broker minimum distance requirements.

Parameter	Default / options	What it does	Practical use
StopLossMode	ENUM_STOP_LOSS_MODE_TS Default: SweepExtremeWithATRBuffer 0 = SweepExtremeWithATRBuffer 1 = LastSwingWithATRBuffer 2 = ReferenceLevelWithBuffer 3 = ATRBasedStop 4 = FixedPointsStop	Method used for stop-loss calculation.	SweepExtremeWithATRBuffer is the cleanest default logic.
SLBufferPoints	double Default: 0.0	Fixed additional distance beyond the stop reference point.	Protects against tight stopouts and broker minimum distances.
SLBufferATRMultiplier	double Default: 0.1	ATR-based additional distance beyond the stop reference point.	The EA uses the larger value from fixed buffer and ATR buffer.
FixedSLPoints	double Default: 100.0	Fixed stop in points.	Relevant only for FixedPointsStop or as a fallback.
ATRPeriod	int Default: 14	ATR period length.	14 is standard. Shorter reacts faster; longer smooths more.
ATRStopMultiplier	double Default: 1.5	ATR multiplier for ATRBasedStop.	Only relevant when StopLossMode is ATRBasedStop.
MaxSLPoints	double Default: 0.0 Note: 0 = use symbol-specific safeguard values	Maximum allowed stop size.	0 uses symbol-specific safeguards. Too small blocks good setups.



Parameter	Default / options	What it does	Practical use
MinSLPoints	double Default: 0.0 Note: 0 = use symbol-specific safeguard values	Minimum allowed stop size.	Important to avoid stops that are too tight. The EA adjusts stops that are below broker limits.

06 - Take Profit

Defines profit target calculation. The minimum risk-reward ratio must still be met.

Parameter	Default / options	What it does	Practical use
TakeProfitMode	ENUM_TAKE_PROFIT_MODE_TS Default: FixedRR 0 = FixedRR 1 = NextLiquidityTarget 2 = PreviousDayTarget 3 = PreviousWeekTarget 4 = ATRBasedTarget 5 = HybridTarget	Method used for take-profit calculation.	FixedRR is the most robust mode for optimization and comparison.
RiskRewardRatio	double Default: 2.0	Main target in R.	2.0 means the target is twice the stop distance. Higher values require stronger moves.
TP1_R	double Default: 1.0	First partial target in R.	Relevant only when partial-profit logic is used.
TP2_R	double Default: 2.0	Second partial target in R.	Relevant only when partial-profit logic is used.
TP3_R	double Default: 3.0	Third partial target in R.	Can be used as an extended target when partial logic is active.
UsePartialTakeProfits	bool Default: false	Allows partial-target logic for target calculation.	Usually disabled when you want clean Fixed-RR backtests.
UseLiquidityTarget	bool Default: true	Allows liquidity levels as targets.	Conceptually useful, but FixedRR is easier to test robustly.
MinRequiredRR	double Default: 1.5	Minimum risk-reward ratio required for a trade.	Prevents trades where the target is too small relative to the stop.

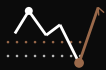
07 - Partial Close / Break Even

Optional position management after entry.

Parameter	Default / options	What it does	Practical use
UsePartialClose	bool Default: false	Activates real partial closes.	For clean backtests, start with this disabled.
TP1_Percent	double Default: 33.0	Position percentage closed at TP1.	All percentage values should roughly add up to 100.
TP2_Percent	double Default: 33.0	Position percentage closed at TP2.	Only active when UsePartialClose is enabled.
TP3_Percent	double Default: 34.0	Position percentage closed at TP3.	Only active when UsePartialClose is enabled.
UseBreakEven	bool Default: true	Moves the stop to entry after sufficient profit.	Good for risk reduction, but moving to BE too early can kill winners.
BreakEvenAfterR	double Default: 1.0	R multiple after which the stop moves to break-even.	Gold, BTC and Nasdaq usually need more room. EURUSD can often be earlier.
BreakEvenBufferPoints	double Default: 2.0	Small profit buffer above or below entry.	Should cover spread/fees slightly. Do not set too large.

08 - Trailing Stop

Trailing stop can protect open profit or let strong moves run longer.



Parameter	Default / options	What it does	Practical use
UseTrailingStop	bool Default: false	Activates trailing stop.	Useful with higher RR targets or strong trend moves.
TrailingMode	ENUM_TRAILING_MODE_TS Default: ATR 0 = ATR 1 = Swing 2 = RBased 3 = CandleByCandle	Defines the trailing method.	ATR is the most robust default choice.
StartTrailingAfterR	double Default: 1.5	R multiple after which trailing starts.	Too early limits winners; too late protects little.
ATRTrailingMultiplier	double Default: 1.5	ATR distance of the trailing stop.	Higher means more room; lower means more aggressive protection.
SwingTrailingLookback	int Default: 8	Lookback used for swing trailing.	Smaller reacts faster; larger gives the trade more room.

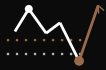
09 - Risk Management

Limits risk, position size, daily loss and overtrading.

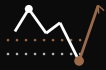
Parameter	Default / options	What it does	Practical use
RiskMode	ENUM_RISK_MODE_TS Default: PercentRisk 0 = PercentRisk 1 = FixedRisk 2 = FixedLot	Defines how lot size is calculated.	PercentRisk is the professional default.
RiskPercent	double Default: 1.0	Account percentage risked per trade.	Conservative: 0.25 to 0.5 percent. Normal: 0.5 to 1 percent.
FixedRiskMoney	double Default: 100.0	Fixed money amount risked per trade.	Only relevant when RiskMode is FixedRisk.
FixedLotSize	double Default: 0.10	Fixed lot size.	Only relevant when RiskMode is FixedLot. Not preferred for serious risk management.
MaxLotSize	double Default: 10.0	Maximum allowed lot size.	Protects against oversized positions after very small stops.
MaxTradesPerDay	int Default: 3	Maximum number of new trades per day.	Protects against overtrading. Nasdaq often 1; EURUSD usually 2 to 3.
MaxTradesPerSymbol	int Default: 1	Maximum open EA positions on the same symbol.	Usually 1 so setups do not overlap.
MaxOpenPositions	int Default: 3	Maximum open EA positions in total.	Important when the EA runs on multiple charts.
MaxDailyLossPercent	double Default: 3.0	Daily loss limit in percent.	After reaching the limit, new trades are blocked.
MaxWeeklyLossPercent	double Default: 10.0	Weekly loss limit in percent.	Additional protection during weak market regimes.
StopAfterLossesInRow	int Default: 3	Blocks trading after X consecutive losses.	Very useful during regime changes.
StopAfterWinsInRow	int Default: 0	Blocks trading after X consecutive wins.	0 disables it. Optional protection against euphoria/overtrading.
CooldownMinutesAfterTrade	int Default: 0	Pause after a trade.	Helps avoid multiple signals inside the same market impulse.

10 - Filters

Filters prevent trades in weak market conditions, unwanted sessions or high spread.



Parameter	Default / options	What it does	Practical use
UseTrendFilter	bool Default: false	Activates an EMA trend filter on the current timeframe.	Can help, but in reversal strategies it may also filter good counter-moves.
FastEMA	int Default: 50	Fast EMA period.	Standard value is 50.
SlowEMA	int Default: 200	Slow EMA period.	Standard value is 200.
TrendFilterMode	ENUM_TREND_FILTER_MODE_TS Default: PriceAndEMAstructure 0 = PriceVsEMA 1 = EMAstructure 2 = PriceAndEMAstructure	Defines how EMAs are evaluated.	PriceAndEMAstructure is the strictest option.
UseEMASlope	bool Default: false	Requires EMA slope to match.	Adds strictness and can strongly reduce trades.
UseHTFFilter	bool Default: false	Activates a higher-timeframe bias filter.	Good for trend following; test carefully with Turtle Soup.
HTFTimeframe	ENUM_TIMEFRAMES Default: PERIOD_H1	Timeframe used for higher-timeframe bias.	H1 or H4 are common starting points.
HTFFastEMA	int Default: 50	Fast EMA on higher timeframe.	34 or 50 are typical values.
HTFSlowEMA	int Default: 200	Slow EMA on higher timeframe.	100 or 200 are typical values.
UseSessionFilter	bool Default: true	Allows new trades only during permitted sessions.	Usually keep enabled for Forex, Gold and indices.
TradeAsia	bool Default: false	Allows Asia session.	Useful for Asia-range setups; optional for EURUSD.
TradeLondon	bool Default: true	Allows London session.	Important for EURUSD, DAX and Gold.
TradeNewYork	bool Default: true	Allows New York session.	Important for Nasdaq, Gold and the US overlap.
UseCustomSession	bool Default: false	Activates an additional custom session.	Useful for broker-specific or strategy-specific windows.
CustomSessionName	string Default: Custom	Name of the custom session in the dashboard.	Display only.
CustomSessionStartTime	string Default: 09:00	Start time of the custom session.	HH:MM in broker/server time.
CustomSessionEndTime	string Default: 12:00	End time of the custom session.	HH:MM in broker/server time.
UseSpreadFilter	bool Default: true	Blocks trades when spread is too high.	Always keep enabled, especially on Gold, indices and crypto.
MaxSpreadPoints	double Default: 30.0	Maximum allowed spread in points.	Broker-dependent. Check symbol point size first.
UseVolatilityFilter	bool Default: false	Activates ATR minimum and maximum filters.	Helpful against dead or chaotic phases.
MinATR	double Default: 0.0 Note: ATR in points, 0 = disabled	Minimum ATR in points.	0 disables it. Too high greatly reduces trades.
MaxATR	double Default: 0.0 Note: ATR in points, 0 = disabled	Maximum ATR in points.	0 disables it. Protects against extreme news/crash candles.
TradeMonday	bool Default: true	Allows new trades on Monday.	Mondays can start slower but are often tradable.
TradeTuesday	bool Default: true	Allows new trades on Tuesday.	Usually a normal trading day.



Parameter	Default / options	What it does	Practical use
TradeWednesday	bool Default: true	Allows new trades on Wednesday.	Usually a normal trading day.
TradeThursday	bool Default: true	Allows new trades on Thursday.	Usually a normal trading day.
TradeFriday	bool Default: true	Allows new trades on Friday.	Be more cautious later on Friday because of weekend risk.
TradeSaturday	bool Default: false	Allows new trades on Saturday.	Mainly relevant for Bitcoin/crypto.
TradeSunday	bool Default: false	Allows new trades on Sunday.	Relevant for crypto. Usually disabled for Forex/CFDs.
FridayNoNewTradesAfter	string Default: 18:00	No new Friday trades after this time.	HH:MM server time. Leave empty if not needed.

11 - Order Management

Lets the EA identify its own trades clearly.

Parameter	Default / options	What it does	Practical use
MagicNumber	long Default: 26042501	Unique identifier for EA trades.	Each strategy/symbol combination should use its own Magic Number.
TradeComment	string Default: Pricework-TurtleSoup	Comment in trade/journal.	Helps later when evaluating and filtering trades.

12 - Invalidation

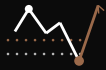
Rules that invalidate setups or pending orders.

Parameter	Default / options	What it does	Practical use
MaxSetupAgeBars	int Default: 8	Maximum age of a setup.	Prevents late entries into stale ideas.
DeletePendingOnInvalidation	bool Default: true	Deletes pending orders when the setup becomes invalid.	Keep enabled.
CloseAtSessionEnd	bool Default: false	Closes positions when the permitted session ends.	Use only if you want strict intraday trading.
CancelPendingAtSessionEnd	bool Default: true	Deletes pending orders at session end.	Keep enabled so old orders do not trigger later.
CloseBeforeDayEnd	bool Default: false	Closes positions shortly before the end of day.	Useful against rollover, swap or prop-firm rules.
DayEndTime	string Default: 23:55	Reference time for day end.	HH:MM server time.
CloseMinutesBeforeDayEnd	int Default: 10	Minutes before DayEndTime to close.	10 to 30 minutes are typical starting values.
CancelPendingBeforeDayEnd	bool Default: true	Deletes pending orders inside the day-end window.	Keep enabled when CloseBeforeDayEnd is active.

13 - Status / Chart

Visual display, status information and chart objects.

Parameter	Default / options	What it does	Practical use
ShowChartObjects	bool Default: true	Shows levels, entry, SL, TP and setup markers.	Enable for visual control; optionally disable for faster backtests.
ShowEAStatusInfo	bool Default: true	Shows EA status on the chart.	Useful for live trading and troubleshooting.
ShowGuidancePanel	bool Default: true	Shows additional feedback on what the EA is waiting for.	Helpful for understanding signals.



Parameter	Default / options	What it does	Practical use
ShowActiveSetupHint	bool Default: true	Switch for active setup hints.	In the current version, additional chart hints are reduced; the dashboard is usually enough.
ShowInvalidSetups	bool Default: false	Shows invalid setups as well.	Enable for analysis; disable for clean charts.
ApplyColorOnWhiteScheme	bool Default: true	Automatically applies the chart color scheme.	Creates a consistent visual appearance.
ShowSessionLines	bool Default: true	Shows vertical lines for session open/close.	Blue = open; red = close.
SessionLinesDaysBack	int Default: 5	Number of days for session lines on the chart.	5 is usually enough.
MaxHistoricalSetupsOnChart	int Default: 30	Number of old setup objects kept on the chart.	Too high makes the chart cluttered.

14 - Backtest

Settings for stable and realistic tests in the MT5 Strategy Tester.

Parameter	Default / options	What it does	Practical use
TradeOnNewBarOnly	bool Default: true	Processes signals only on a new candle.	Keep enabled for stable backtests.
SlippagePoints	int Default: 10	Allowed execution deviation.	Use larger values for volatile symbols.
BacktestMode	ENUM_BACKTEST_MODE_TS Default: NormalBacktest 0 = NormalBacktest 1 = ConservativeBacktest	Normal or conservative tester logic.	ConservativeBacktest is stricter but more realistic when tick data is weak.

06 - Troubleshooting

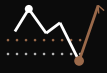
Operational checks when the EA behaves differently than expected.

Issue	What to check
The EA does not place trades	Check AutoTrading, session filter, spread filter, weekdays, daily loss limit, open positions, MaxTrades and whether a real sweep with reclaim has occurred.
Many setups are blocked	Common causes are MaxSLPoints, MinRequiredRR, UseOnlyUntouchedLevels, RequireSweepWickRejection or overly strict ATR filters.
Order rejected because of stop distance	Increase SLBufferPoints, SLBufferATRMultiplier or MinSLPoints. Also check broker Stop Level and Freeze Level.
Backtest looks good, live trading does not	Check tick quality, spread, slippage, commissions and symbol point size. CFD indices and crypto are especially broker-dependent.
Too many small losses	Increase sweep quality, make reclaim stricter, narrow the session window or increase cooldown.
Too few trades	Increase Lookback, reduce MinSwingSizeATR, test Wick-Rejection disabled or broaden the session filter.

07 - Optimization Sequence

A structured tuning order reduces the risk of overfitting.

- Start with ReferenceLevelMode, PivotLeftBars, PivotRightBars and LookbackBars.
- Then optimize sweep inputs: MinSweepPoints, MinSweepATRMultiplier and RequireSweepWickRejection.
- Then optimize reclaim inputs: MaxReclaimBars and MinBodyPercent.
- Then tune Stop/TP: SLBufferATRMultiplier, MaxSLPoints, RiskRewardRatio and MinRequiredRR.
- After that, test management: BreakEvenAfterR, UseTrailingStop and ATRTrailingMultiplier.
- Finally tune filters: session, spread, ATR min/max and weekdays.
- Do not optimize everything at once. Strong setfiles must remain stable out-of-sample, with higher spread and worse slippage.



08 - Risk Notice

This EA is a tool for systematic trading and does not guarantee profits. Every setting must be tested for the symbol, broker, account type and trading objective. Use conservative risk in live operation. Trading involves risk, and past performance is not indicative of future results.