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NINJATRADER 8 INDICATOR · NINJASCRIPT, C#

User Guide

A fast and a slow EMA with a trend fill, three signal families decided on closed bars, swing support and resistance, an entry, a stop and two targets, a 16-row dashboard and nine alerts.

PRODUCT	Momentum Tidebreaker for NinjaTrader 8
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01

What it is

Chart indicator for NinjaTrader 8 Desktop (NinjaScript, C#) for trend and momentum. It draws a fast and a slow EMA with a band between them that follows the trend, three signal families decided on closed bars (an EMA trend cross, an RSI reclaim of 50, and a momentum divergence at an RSI extreme), STRONG markers where a signal is also a divergence, the most recent swing highs and lows as support and resistance rays, and for each signal an entry line, a stop and two targets from the ATR, tracked until TP2 or the stop is reached. A 16-row dashboard shows the readings and the tracked trade. It has nine alert conditions and series a strategy can read.

It only draws and alerts: it never places, modifies or closes orders. A webhook is not part of this edition: the indicator makes no network call of its own.

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Installation

Requirements

- NinjaTrader 8.1.x Desktop for Windows (tested on 8.1.9.0). Not for NinjaTrader 8.0 or NinjaTrader Web.
- Any data connection that delivers bars for the chart. The calculation does not read volume. No Order Flow+ features, no depth, no tick history.

Import the Add-On package

1. Control Center > Tools > Import > NinjaScript Add-On.
2. Select `MomentumTidebreaker.zip` and confirm. NinjaTrader compiles the assembly and reports that the import is complete.
3. No restart is needed. If a chart already had an older version, remove and re-add the indicator (a compile does not reload running instances).

Verify installation

1. Open a chart with at least a few hundred bars (any instrument, a 1 to 60 minute interval is a good first look), press Ctrl+I.
2. In the Available list find **Momentum Tidebreaker**, click add, click OK.
3. The chart shows two EMA lines with a translucent band between them, teal while the fast EMA is above the slow EMA and red otherwise, dashed support and resistance rays, BUY and SELL triangles on the bars that raised a signal, and the 16-row dashboard in the top-right corner. If a trade is being tracked, an entry line, a stop, two targets and a price tag on each are drawn as well.

Uninstall / update

- Remove: Control Center > Tools > Remove NinjaScript Assembly > Momentum Tidebreaker.
- Update: import the new zip over the installed version (NinjaTrader replaces the assembly), then remove and re-add the indicator on every chart that uses it, or reload the workspace.

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Quick start

First chart

1. Add **Momentum Tidebreaker** to a chart (Ctrl+I). Leave every setting at its default.
2. Everything that signals is decided on closed bars. With the default `Calculate.OnBarClose` the chart changes when a bar closes. Choose `OnEachTick` in the Indicators dialog if the EMAs and the dashboard should follow the forming bar; that makes no signal earlier.
3. Give the chart some bars. The slow EMA has a value after **Slow EMA Length** bars and the RSI after **RSI Length** plus one, and until then the dashboard can read `NaN`.

Reading the chart

- **EMAs and band**: the fast and the slow EMA. While the fast EMA is above the slow EMA both lines and the band between them are in **Bullish Color**, otherwise in **Bearish Color**. The slow line is drawn more transparent. **Fill Transparency** sets the band.
- **BUY and SELL triangles**: a BUY sits under the bar, a SELL over it, each with its word. They appear on closed bars and do not move.
- **Diamonds**: a small diamond marks a divergence, under the bar for bullish, over it for bearish. It marks the condition, and it is drawn whether or not **Enable Divergence Signals** is on.
- **STRONG triangles**: a larger triangle with a star, where a BUY is also a bullish divergence or a SELL a bearish one. Markers on one side of one bar stack away from the bar: diamond, then BUY or SELL, then STRONG, and the STRONG triangle covers the word under it.
- **Support and resistance rays**: dashed lines at the most recent swing lows (bullish colour) and swing highs (bearish colour), up to **Max S/R Levels** per side. Each ray starts 100 bars back from the newest bar, whatever bar the swing formed on, and runs to the right edge of the chart.
- **Trade levels**: for the tracked trade, a solid white entry line, a dashed stop and two dashed targets, **Line Extension (bars)** long, with a price tag one bar past each line. A tag that would fall past the right edge is pulled inside the chart and its line ends where the tag starts. A tag prints the nearest tick of the instrument. The stop and the targets come from the ATR, so on an instrument with a tick such as 0.25 they can fall between two ticks: the line sits at the calculated level and the hit test uses that level, while its tag reads, for example, `SL 29301.25` for a level of 29301.37.
- **Dashboard**: the 16 rows below, in the top-right corner.

Signal rules

A BUY is raised when **any** enabled family fires on a closed bar; a SELL likewise.

FAMILY	BUY WHEN	SELL WHEN
Trend Cross	the fast EMA crosses above the slow EMA, RSI is above 50, Strength is above 1 %, and with **Require Momentum Confluence (Trend Cross)** on the 5-bar momentum is positive	the mirror: crosses below, RSI below 50, Strength above 1 %, momentum negative
RSI Reclaim	RSI crosses above 50 while the fast EMA is above the slow EMA and the close is above the slow EMA	RSI crosses below 50 while the fast EMA is below the slow EMA and the close is below it
Divergence	a bullish divergence, and the close is back above the fast EMA	a bearish divergence, and the close is back below the fast EMA

Strength is the gap between the two EMAs as a percentage of an ATR of **Trend Strength Period**. **Momentum** is the 5-bar change in the close as a percentage of a 10-bar ATR.

A **bullish divergence** is a bar where RSI is below **Oversold Level**, momentum is higher than on the previous bar, and the close is lower than the previous close. The bearish one mirrors it at **Overbought Level**. A STRONG signal is always a Divergence signal, because the other two families need RSI on the other side of 50. With the default 30 / 70 levels it is rare; moving the levels towards 50 makes it more common.

The tracked trade

Every signal starts a new tracked trade from the signal bar's close:

- **SL** = the close minus (BUY) or plus (SELL) **ATR Length (Risk)** ATR times **SL ATR Multiplier**;
- **risk** = the distance to the SL, but never less than 10 ticks;
- **TP1** = one risk away; **TP2** = **TP2 Risk:Reward** risks away.

On each following closed bar the levels are tested in this order, and the first that is met wins:

1. **TP2** reached: the trade closes as a win and its lines and tags go away.
2. **TP1** reached for the first time: TP1 is booked, its line dims, the trade stays open.
3. **SL** reached: the trade closes as a loss and its lines and tags go away.

Worth knowing:

- a bar that reaches TP1 and the stop together books TP1 and is not a loss; the stop is tested again on the next bar;
- with **TP2 Risk:Reward** below 1.0, TP2 is nearer than TP1 and is reached first;
- the stop does not move after TP1;
- a new signal replaces the tracked trade without counting it as a win or a loss;
- if a BUY and a SELL fire on the same bar, the SELL is the one that is tracked;
- **Show TP/SL Levels** off hides the lines and tags only. The trade is tracked, the dashboard counts it and its alerts fire either way.

The dashboard

ROW	LABEL	VALUE	COLOUR
0	Momentum Tidebreaker	DASHBOARD	header
1	Trend	`BULLISH` when the fast EMA is above the slow EMA, otherwise `BEARISH`	bullish / bearish
2	Strength	the EMA gap as a % of the Trend Strength ATR, two decimals	trend colour above 1 %, neutral otherwise
3	RSI	RSI to one decimal, then `OB`, `OS` or `Mid`	bearish when overbought, bullish when oversold
4	Momentum	5-bar momentum as a % of a 10-bar ATR, one decimal	bullish when positive, bearish otherwise
5	ATR (n)	the risk ATR in price, then its size in ticks	white
6	ATR % of Price	the risk ATR as a % of the close	bearish above 1 %, neutral below 0.3 %
7	Dist to Resistance	ticks to the nearest kept resistance above the close, or `-`	bearish
8	Dist to Support	ticks to the nearest kept support below the close, or `-`	bullish
9	- Active Trade -		section
10	Direction	`LONG`, `SHORT` or `-`	bullish / bearish / neutral
11	Entry	the tracked entry price, or `-`	white
12	SL	the stop and its distance in ticks, or `-`	bearish
13	TP1 / TP2	both targets; `[TP1 v]` once TP1 has been reached	bullish
14	Floating P&L	ticks and % from the entry to the current close, or `-`	bullish when positive
15	W / L / WR	trades closed at TP2 / at the stop / the share closed at TP2	neutral before the first close, then bullish at 50 % or more

The dashboard's distances are ticks of the instrument, not index points. On MNQ, where the tick is 0.25, `50 ticks` is 12.5 index points. Every price on the dashboard prints the nearest tick, and the ticks are calculated from the levels before that rounding.

The W / L / WR row counts tracked level sets on this chart and these settings, over the bars the chart has loaded. A trade replaced by a new signal is not counted at all. It is not a trading record.

Settings to try first

SETTING	WHAT IT CHANGES
Fast EMA Length / Slow EMA Length	The two lines, the trend colour and the Trend Cross family.
Enable Trend Cross / RSI Reclaim / Divergence Signals	Which families can raise a signal.

SETTING	WHAT IT CHANGES
Oversold Level / Overbought Level	Where a divergence can form. Towards 50 gives more diamonds and more STRONG signals.
Pivot Length / Max S/R Levels	How significant a swing must be, and how many rays stay per side.
SL ATR Multiplier / TP2 Risk:Reward	The distances of the stop and the targets.
Show S/R Levels / Show TP/SL Levels	Hide the drawing only. The calculation is unchanged.

Alerts

Nine events, each behind its own switch in **08 Alerts**, all on by default. They are evaluated once per closed bar and only in realtime, never during the history pass, and never for a bar that closed more than two bar periods plus five seconds ago.

SWITCH	FIRES WHEN	MESSAGE
Alert: Buy	a BUY closes	`MNQ BUY @ 29307.25 | SL/TP wired on chart`
Alert: Sell	a SELL closes	`MNQ SELL @ 29307.25 | SL/TP wired on chart`
Alert: Strong Buy	a BUY that is also a bullish divergence	`MNQ STRONG BUY @ 29307.25 — Trend Cross + Divergence confluence`
Alert: Strong Sell	a SELL that is also a bearish divergence	`MNQ STRONG SELL @ 29307.25 — Trend Cross + Divergence confluence`
Alert: TP1 Hit	the tracked trade reaches TP1 for the first time	`MNQ TP1 hit on active trade — consider partial profit`
Alert: TP2 Hit	the tracked trade reaches TP2 and closes	`MNQ TP2 hit — trade closed in profit`
Alert: SL Hit	the tracked trade reaches its stop and closes	`MNQ SL hit — trade closed at loss`
Alert: Bullish Divergence	a bullish diamond is drawn	`MNQ bullish RSI/price divergence detected at oversold`
Alert: Bearish Divergence	a bearish diamond is drawn	`MNQ bearish RSI/price divergence detected at overbought`

The message carries the instrument and, where it prints a price, the close of the bar at the instrument's tick. The trade alerts describe the tracked levels on the chart; the indicator holds no position. The drawing switches do not silence an alert.

CHANNEL	DEFAULT	WHAT ARRIVES
Alerts Log	always	one row per alert
Alert Log Line	on	the same line in the NinjaScript Output window
Alert Sound	off	the file named in **Alert Sound File**: a name inside NinjaTrader's sounds folder or a full path; blank plays `Alert2.wav`

CHANNEL	DEFAULT	WHAT ARRIVES
Alert E-mail	off	an e-mail to **E-mail To**, through NinjaTrader's Mail share service (Tools > Options > Share)

The row and the Output line read `Momentum Tidebreaker — BUY | MNQ BUY @ 29307.25 | SL/TP wired on chart`. An e-mail has the title as its subject and the message as its body.

A webhook is not part of this edition: the indicator makes no network call of its own.

The final bar of a session

A signal on a session's final bar appears after the reopen. NinjaTrader closes a bar when the next bar's first tick arrives, so on a closed market that last bar is committed only at the first tick after the reopen. Its alert is raised only if the reopen comes within two bar periods plus five seconds of the bar's close; otherwise the marker prints with no alert.

Using the values in a strategy or the Market Analyzer

The two EMAs and eleven hidden series are exposed: `FastEma`, `SlowEma`, `Signal` (1, -1, 0), `BuySignal`, `SellSignal`, `StrongBuySignal`, `StrongSellSignal`, `TrendDirection`, `ActiveDirection`, `EntryPrice`, `StopLevel`, `Target1` and `Target2`. Example: `if (MomentumTidebreaker(...).BuySignal[0] > 0)`. With `OnEachTick` or `OnPriceChange` the bar that just closed is `[1]`.

What it does not do

It places no orders and sends nothing over a network of its own. It draws what the closed bars show; it does not forecast where price goes next. The tracked trade is a set of levels on a chart, not a position.

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Calculate mode and bar timing

- Default `Calculate.OnBarClose`: one engine commit per closed bar. The EMAs, the levels and the dashboard change when a bar closes.
- `OnEachTick` / `OnPriceChange`: the closed bar is committed once, at the first tick of the next bar, and the forming bar is previewed at most four times a second. The EMAs, the fill and the dashboard follow the forming bar. These modes do not make a signal earlier and they commit the same bars.
- **A forming bar raises no signal, no target or stop hit and no marker.** Every signal, hit, diamond and alert belongs to a closed bar. Once drawn a marker does not change, and a trade's lines are drawn once, on the signal bar, and are not moved.
- A preview is rolled back before the next call, so it leaves no trace. A support or resistance ray can come from the forming bar: a swing is confirmed **Pivot Length** bars after its own bar, and a ray that a forming bar confirms goes away again if that bar's high or low then moves past the swing. On a closed bar it stays.
- Historical pass: one call per closed bar. A still-forming last bar is previewed, not committed, and committed once it has closed. The engine slot is the NinjaTrader bar index and the host walks it from the `Bars` series, so the historical to realtime transition can neither double-feed nor skip a bar; a skipped range is refilled from the series.
- **A signal on a session's final bar appears after the reopen.** NinjaTrader closes a bar when the next bar's first tick arrives, so on a closed market the session's last bar stays uncommitted until the first tick after the reopen. Its alert is raised only if the reopen comes within two bar periods plus five seconds of that bar's close; otherwise the marker prints with no alert.
- With `OnEachTick` / `OnPriceChange`, Tick Replay takes the same path as per-tick realtime.
- The indicator keeps calculating while its chart window is minimized (`IsSuspendedWhileInactive = false`), and an alert is raised only for a bar that closed within the last two bar periods plus five seconds, so a catch-up after a suspension or a reconnect does not replay old alerts. On tick, volume, range and other non-time bars that limit is at least five minutes.
- A bar's OPEN time is its NinjaTrader close time minus the bar period (on non-time bars, the smallest spacing of the first 300 bars). The calculation does not read it; only the CSV dump does.
- The price axis follows the bars, not the drawings (`IsAutoScale = false`), so a far stop or target can lie outside the panel.

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Outputs for strategies and the Market Analyzer

PLOT / SERIES	VALUES
`FastEma` (plot 0, drawn)	the fast EMA; no value during its warm-up
`SlowEma` (plot 1, drawn)	the slow EMA; no value during its warm-up

PLOT / SERIES	VALUES
`Signal` (plot 2, hidden)	1 on the closed bar of a BUY, -1 on the closed bar of a SELL, 0 otherwise; a bar with both reads 1
`BuySignal` (plot 3, hidden)	1 on the closed bar of a BUY, 0 otherwise
`SellSignal` (plot 4, hidden)	1 on the closed bar of a SELL, 0 otherwise
`StrongBuySignal` (plot 5, hidden)	1 on the closed bar of a STRONG BUY, 0 otherwise
`StrongSellSignal` (plot 6, hidden)	1 on the closed bar of a STRONG SELL, 0 otherwise
`TrendDirection` (plot 7, hidden)	1 while the fast EMA is above the slow EMA, otherwise -1, also while the EMAs warm up
`ActiveDirection` (plot 8, hidden)	the tracked trade's direction after the bar: 1, -1, or 0 with no trade
`EntryPrice` (plot 9, hidden)	the tracked trade's entry; no value with no trade
`StopLevel` (plot 10, hidden)	the tracked trade's stop; no value with no trade
`Target1` (plot 11, hidden)	the tracked trade's TP1; no value with no trade
`Target2` (plot 12, hidden)	the tracked trade's TP2; no value with no trade

The series follow the calculation and not the drawing switches: **Show TP/SL Levels** off leaves the five trade series unchanged. `StopLevel`, `Target1` and `Target2` carry the calculated level, which can lie between two ticks; only the printed text is at the nearest tick.

With `Calculate.OnBarClose`, `[0]` is the bar that just closed. With `OnEachTick` / `OnPriceChange`, the bar that just closed is `[1]`; on the forming bar `[0]` reads 0 for the four signal events and `Signal`, and the other series follow the preview.

Example in a strategy: `var mtb = MomentumTidebreaker(...); if (mtb.BuySignal[0] > 0) ...` (the accessor is generated by NinjaTrader on compile; every input except the three colours is one of its arguments).

06

Parameters

The 22 inputs in groups 01 to 06 keep the titles, order, defaults and ranges of the other editions (the group names carry a number prefix because NinjaTrader sorts groups alphabetically). Groups 07 Display, 08 Alerts and 09 NinjaTrader hold the 17 platform settings: 39 parameters in total. No platform setting changes a calculation.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
01 TREND ANALYSIS	Fast EMA Length	int	12	from 1	`EmaFastLen`	Length of the fast EMA drawn on the chart. Its crossing of the slow EMA is the Trend Cross signal, and which of the two is on top sets the trend colour.
01 TREND ANALYSIS	Slow EMA Length	int	26	from 1	`EmaSlowLen`	Length of the slow EMA. With the fast EMA it forms the trend fill.
01 TREND ANALYSIS	Trend Strength Period	int	14	from 1	`TrendStrength`	ATR length used to express the EMA gap as a percentage of volatility. A Trend Cross needs this Strength above 1 %.
02 SUPPORT & RESISTANCE	Pivot Length	int	10	from 2	`PivotLength`	Bars on each side a swing high or low must dominate before it becomes a level. A level is therefore confirmed this many bars after the swing.
02 SUPPORT & RESISTANCE	Max S/R Levels	int	3	1 to 5	`MaxLevels`	How many of the most recent swing highs and lows are kept and drawn, per side.
02 SUPPORT & RESISTANCE	Show S/R Levels	bool	true		`ShowSRLevels`	Draws the kept levels as dashed rays. Off hides the rays only; the dashboard distances are still computed.
03 MOMENTUM	RSI Length	int	14	from 1	`RsiLength`	RSI length. RSI crossing 50 is the RSI Reclaim signal; RSI below Oversold or above Overbought arms a divergence.
03 MOMENTUM	Oversold Level	int	30	1 to 49	`OversoldLevel`	RSI below this is oversold. A bullish divergence can only form while RSI is below it.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
03 MOMENTUM	Overbought Level	int	70	51 to 99	`OverboughtLevel`	RSI above this is overbought. A bearish divergence can only form while RSI is above it.
04 SIGNALS	Enable Trend Cross Signals	bool	true		`EnableTrendCross`	The fast EMA crossing the slow EMA, confirmed by RSI on the right side of 50, Strength above 1 % and, optionally, momentum.
04 SIGNALS	Enable RSI Reclaim Signals	bool	true		`EnableRSIReclaim`	RSI crossing 50 in the direction of the EMA trend with price on the right side of the slow EMA.
04 SIGNALS	Enable Divergence Signals	bool	true		`EnableDivergence`	A momentum divergence at an RSI extreme with price back across the fast EMA. The divergence diamonds are drawn whether or not this is on.
04 SIGNALS	Require Momentum Confluence (Trend Cross)	bool	true		`RequireMomentumConfluence`	When on, a Trend Cross also needs the 5-bar momentum to point the same way. Affects the Trend Cross family only.
05 RISK MANAGEMENT	Show TP/SL Levels	bool	true		`ShowSLTP`	Draws the entry, stop and two target lines with their price tags. A display switch only: the trade is tracked, the dashboard counts wins and losses and the alerts fire either way.
05 RISK MANAGEMENT	ATR Length (Risk)	int	14	from 1	`AtrLenRisk`	ATR length used to place the stop, and shown in the dashboard's ATR row.
05 RISK MANAGEMENT	SL ATR Multiplier	double	1.5	from 0.1	`SlPadding`	Stop distance in ATRs from the signal bar's close. The risk used for the targets is never less than 10 ticks.
05 RISK MANAGEMENT	TP2 Risk:Reward	double	2.0	from 0.5	`RrRatio`	TP2 distance as a multiple of the risk. TP1 is always 1:1. Below 1.0 TP2 sits nearer than TP1 and is reached first.
05 RISK MANAGEMENT	Line Extension (bars)	int	30	from 5	`LineExtend`	How many bars to the right the trade lines run from the signal bar; the price tags sit one bar beyond.
06 VISUAL SETTINGS	Bullish Color	colour	#00D4AA		`BullColor`	Colour for everything bullish: the EMAs and the fill while the fast EMA is above the slow EMA, markers, targets, support rays and bullish dashboard values.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
06 VISUAL SETTINGS	Bearish Color	colour	#FF6B6B		`BearColor`	Colour for everything bearish: the EMAs and the fill otherwise, markers, the stop, resistance rays and bearish dashboard values.
06 VISUAL SETTINGS	Neutral Color	colour	#95A5A6		`NeutralColor`	Colour for neutral dashboard values: weak strength, a quiet ATR, no active trade, no closed trades yet.
06 VISUAL SETTINGS	Fill Transparency	int	80	0 to 100	`Transparency`	Transparency of the band between the two EMAs, 0 opaque to 100 invisible.
07 Display	Label Glyphs	option	Unicode		`Glyphs`	Unicode draws the markers as filled triangles and diamonds. Ascii draws them as plain characters instead: ^ and v and the two angle brackets.
08 Alerts	Alert: Buy	bool	true		`AlertBuy`	Delivers the BUY alert. Every alert appears in the Alerts Log window.
08 Alerts	Alert: Sell	bool	true		`AlertSell`	Delivers the SELL alert.
08 Alerts	Alert: Strong Buy	bool	true		`AlertStrongBuy`	Delivers the STRONG BUY alert: a buy that is also a bullish divergence.
08 Alerts	Alert: Strong Sell	bool	true		`AlertStrongSell`	Delivers the STRONG SELL alert: a sell that is also a bearish divergence.
08 Alerts	Alert: TP1 Hit	bool	true		`AlertTp1`	Delivers the TP1 alert, raised once per trade when the first target is reached.
08 Alerts	Alert: TP2 Hit	bool	true		`AlertTp2`	Delivers the TP2 alert, which closes the tracked trade as a win.
08 Alerts	Alert: SL Hit	bool	true		`AlertSl`	Delivers the stop alert, which closes the tracked trade as a loss.
08 Alerts	Alert: Bullish Divergence	bool	true		`AlertBullDiv`	Delivers the bullish divergence alert, raised with every bullish diamond.
08 Alerts	Alert: Bearish Divergence	bool	true		`AlertBearDiv`	Delivers the bearish divergence alert, raised with every bearish diamond.
08 Alerts	Alert Log Line	bool	true		`AlertLogLine`	Writes each alert to the NinjaScript Output window.
08 Alerts	Alert Sound	bool	false		`AlertSound`	Plays a sound with each alert.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
08 Alerts	Alert Sound File	string	"Alert2.wav"		`AlertSoundFile`	A file name inside the NinjaTrader sounds folder, for example Alert2.wav, or the full path to a .wav file. Blank plays Alert2.wav.
08 Alerts	Alert E-mail	bool	false		`AlertEmail`	Sends each alert by e-mail through the Mail share service configured in NinjaTrader (Tools > Options > Share).
08 Alerts	E-mail To	string	""		`EmailTo`	Recipient address for alert e-mails. Blank sends none.
09 NinjaTrader	Debug Mode	bool	false		`DebugMode`	Writes diagnostics to mtb_nt_debug.log in the NinjaTrader 8 folder.
09 NinjaTrader	Dump Bars + Outputs CSV	bool	false		`DebugDumpCsv`	Writes every committed bar with the engine outputs to mtb_dump_<instrument>_<period>.csv (parity checks).

39 parameters.

07

Sessions, time and volume

Sessions

The indicator has no session logic of its own: every bar the chart delivers is fed to the engine in order, so the chart's Trading Hours template decides which bars exist. With an ETH template (for example `CME US Index Futures ETH`) the overnight bars take part in the EMAs, the RSI, the ATRs and the swings; with an RTH template they do not. Both are valid, and the values differ, as they do for any indicator. Nothing resets at a session start: the EMAs and the tracked trade run across the gap.

The final bar of a session

A signal on a session's final bar appears after the reopen. NinjaTrader closes a bar when the next bar's first tick arrives, and the indicator raises signals only on closed bars, so on a closed market the last bar stays uncommitted until the first tick after the reopen. Its alert is raised only if the reopen comes within two bar periods plus five seconds of that bar's close; otherwise the marker prints with no alert. The same applies to any later close on a quiet instrument: the bar is committed when the next tick starts a new bar. A target or stop reached on that bar is booked at the same moment.

History

The EMAs start from the first bar the chart loaded, and the tracked trade, the wins and the losses count from there too. The indicator does not extend the chart's data, so the Data Series setting **Days to load** decides how much history is behind them. Two charts that loaded different amounts of history can differ for a while from where the shorter one starts, and their W / L / WR rows differ.

Time stamps

NinjaTrader stamps a bar with its CLOSE time in the platform time zone. The bar's open time is reconstructed as close time minus the bar period; on non-time bars the smallest spacing of the first 300 bars stands in for the period. The calculation does not read time, and only the CSV dump writes it. Everything drawn is positioned by bar index. Slots past the last bar, where the trade lines and their tags usually end, are placed at the average bar spacing of the view.

Ticks

The tick comes from the instrument (`TickSize`). It sets how a price prints (the nearest tick, so 29301.25 on a tick of 0.25, while the line itself sits at the calculated level), the distances the dashboard shows in `pts`, and the floor of 10 ticks under the risk behind the targets. `pts` are ticks: on MNQ, where the tick is 0.25, `50 pts` is 12.5 index points.

Volume

The calculation does not read volume: the EMAs, RSI, ATRs, swings, signals and levels come from open, high, low and close alone. The CSV dump writes the bar's volume for bar identity only.

Contract rollover

A continuous contract (merge policy `MergeBackAdjusted` or `MergeNonBackAdjusted` in the Data Series dialog) shows a price jump at the roll unless back-adjusted. The EMAs, the swings and the ATR behind the stop are built from prices, so a non-back-adjusted roll can produce a false crossing, a swing level at the old price and an oversized ATR for a while; with back adjustment there is no jump. State the merge policy when comparing values across machines.

08

Compatibility

ITEM	STATUS
NinjaTrader version	8.1.x Desktop (tested 8.1.9.0). Not 8.0, not NinjaTrader Web or mobile.
Product type	Indicator, price panel overlay, single data series.
Instruments	Any instrument with bars: futures, micro futures, forex, stocks. The tick comes from the instrument, and every price prints the nearest tick: 29301.25 on a tick of 0.25. Verified on MNQ (CME) 1-minute.
Bar types	Time-based (second, minute, day, week, month, year) fully. Tick, volume, range, Renko and other non-time bars run; on them the alert's age limit is at least five minutes.
Calculate modes	OnBarClose (default), OnEachTick, OnPriceChange. Every signal, hit, marker and alert belongs to a closed bar in every mode. With OnEachTick or OnPriceChange the EMAs, the fill and the dashboard follow the forming bar, at most four updates a second, and Tick Replay takes the per-tick path.
Session close	A signal on a session's final bar appears after the reopen, at the next bar's first tick. See the chapter on sessions, time and volume.
Multi-instance	Yes. Every instance paints its own surface, and every alert id carries the instrument, the period and an instance hash.
Market Analyzer	Loads with no drawing; the `FastEma`, `SlowEma`, `Signal`, `BuySignal`, `SellSignal`, `StrongBuySignal`, `StrongSellSignal`, `TrendDirection`, `ActiveDirection`, `EntryPrice`, `StopLevel`, `Target1` and `Target2` series are available as columns. Not advertised as a scanner.
Strategies	The series can be referenced from a strategy. Every input except the three colours is a `[NinjaScriptProperty]`.
Data requirements	Bars only. The calculation does not read volume, so a feed without volume changes nothing.
Rendering	NinjaTrader plots for the two EMAs; everything else with SharpDX in `OnRender`, with DPI scaling and full resource cleanup on render-target change and termination. No draw objects.
Dark and light charts	The colours are inputs. The entry line, its tag, the dashboard's labels and the BUY and SELL words are white by design, and the dashboard keeps its black background, so on a light chart the entry line and the words are harder to read.
Templates and workspaces	All settings serialize (colours through the standard brush serializer).

ITEM	STATUS
Minimized chart	Keeps calculating and alerting while its chart window is minimized (`IsSuspendedWhileInactive` off). A bar that closed more than two bar periods plus five seconds ago is not alerted, so a reconnect or a catch-up does not produce a burst of stale alerts.
Webhook	Not part of this edition. The indicator makes no network call of its own; e-mail goes through NinjaTrader's Mail share service.
Order handling	None. The indicator never touches orders, positions or accounts.

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Troubleshooting

SYMPTOM	CAUSE AND FIX
Nothing on the chart	Check that the licence is active for your NinjaTrader login and that the indicator is in the Configured list (Ctrl+I). It paints in the price panel: with the indicator in its own panel it is not visible.
Nothing at the start of the chart, or `NaN` on the dashboard	The slow EMA needs **Slow EMA Length** bars and the RSI needs **RSI Length** plus one, and a level needs **Pivot Length** bars on both sides of a swing. Load more bars.
No marker on the last bar	The bar is still forming, or the session has ended. A signal on a session's final bar appears after the reopen, at the next bar's first tick.
OnEachTick shows no signal earlier	By design. Signals, hits and markers belong to closed bars in every Calculate mode. OnEachTick moves the EMAs, the fill and the dashboard with the forming bar.
The chart does not move inside a bar	With the default OnBarClose it changes when a bar closes. Choose OnEachTick or OnPriceChange to follow the forming bar.
I never see a STRONG signal	Expected with the default levels. A STRONG signal needs a divergence buy or sell, a rare combination at 30 / 70. Moving **Oversold Level** and **Overbought Level** towards 50 makes it more common.
Diamonds appear, but no divergence signal	A diamond marks the divergence condition. It becomes a signal only when the close is also back on the right side of the fast EMA and **Enable Divergence Signals** is on.
A trade reached TP1 and the stop on the same bar but shows no loss	Correct. The levels are tested TP2, then TP1, then the stop, and the first one met wins, so that bar books TP1. The stop is tested again from the next bar.
TP2 was hit before TP1	**TP2 Risk:Reward** is below 1.0, which puts TP2 nearer than TP1. Set it to 1.0 or more to have TP1 first.
The W / L counter did not change at a new signal	A new signal replaces the tracked trade, and the replaced trade is not counted.
Show TP/SL Levels is off and the dashboard still shows a trade	Correct. The switch hides the lines and tags only. The trade is tracked, the dashboard shows it and the TP and SL alerts fire.

SYMPTOM	CAUSE AND FIX
The support and resistance rays moved	They are drawn from the newest confirmed swings. A new swing replaces the oldest kept one, and a swing is confirmed **Pivot Length** bars after it happens. With OnEachTick a ray from the forming bar can come and go until the bar closes.
No rays after scrolling far back	Every ray starts 100 bars back from the newest bar. Further back than that there is nothing to draw.
A price tag is not at its line's natural end	A tag that would fall past the right edge is pulled inside the chart, and the line ends where the tag starts. The price on the tag does not change. For more room use chart Properties > Right side margin.
No tags after scrolling back	A tag is pulled in only while its trade's own bar is in view.
A tag's price is not exactly where its line sits	The stop and the targets come from the ATR, so on an instrument with a tick such as 0.25 they can fall between two ticks. The line sits at the calculated level and the hit test uses that level; the tag and the dashboard print the nearest tick.
The `pts` look too large	`pts` are ticks of the instrument, not index points. On MNQ, where the tick is 0.25, `50 pts` is 12.5 index points.
A level lies outside the panel	The price axis follows the bars, not the drawings. Drag the price axis to see it.
A colour picked under Plots does nothing	The two EMA lines take their colour per bar from **Bullish Color** and **Bearish Color**. Under Plots, the width and the dash style apply.
Alerts do not fire	Alerts fire only in realtime, only for bars that close after the chart loaded, and only with the per-event switch on. A bar that closed more than two bar periods plus five seconds ago is not alerted, and that includes a session's final bar after a long break.
Sound not played	**Alert Sound** must be on. **Alert Sound File** is a name inside `<NinjaTrader 8 install>\sounds\` or a full path to a .wav file.
No e-mail	**Alert E-mail** must be on with **E-mail To** filled in, and the Mail share service configured under Tools > Options > Share.
Looking for a webhook	A webhook is not part of this edition. The indicator makes no network call of its own.
Plain characters instead of triangles	**Label Glyphs** is set to Ascii. Unicode, the default, draws filled shapes, which need no font.
Values differ from another platform on the same symbol	Bars differ by feed and session template; compare on identical bars (see the chapter on how this edition was verified).
The picture differs between two charts	The EMAs and the tracked trade are built from the bars before them. Compare charts with the same **Days to load** and Trading Hours template.
Text is tiny or huge	The text sizes are fixed and follow the Windows display scaling.
An error line names Momentum Tidebreaker in the Log tab	Set **09 NinjaTrader > Debug Mode** on, reproduce it, and send `Documents\NinjaTrader 8\mtb_nt_debug.log` with the chart interval, instrument and NinjaTrader version.
Everything is drawn twice	Two instances are configured (Ctrl+I, Configured list). Remove one.

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How this edition was verified

The verification has two stages, which measure different things and are reported separately. Stage 1 ran on forex and gold bars, stage 2 runs on NinjaTrader bars, so the two figures are never added together.

Stage 1: the engine

The platform-free engine that ships here is the same code as the cTrader edition's engine apart from its namespace and using lines and one declared change to printed text: a price prints the nearest tick. No calculated value reads that text. That engine was replayed bar by bar there, every column held to exact (flags, counts, directions), absolute 1e-9 (prices) or relative 1e-9 (ratios), and the drawn objects were compared field by field.

GATE	BARS	COMPARED	MISMATCHES
every calculated series on EURUSD M5, five generations of columns and 14 input sweeps	20,140	7,334,164 cells	0
the same on XAUUSD M5, two generations, a two-decimal quote	20,557	638,357 cells	0
drawn objects on EURUSD M5: rays, trade lines, price tags, all 32 dashboard cells, per-bar EMA and fill colours, six marker series	20,140	279 checks	0
drawn objects on XAUUSD M5	20,557	239 checks	0

Stage 2: NinjaTrader host vs the engine on identical NinjaTrader bars (2 November 2026)

With **Dump Bars + Outputs CSV** on, the indicator writes every committed bar (time, open, high, low, close, volume) together with the engine outputs as the host saw them: the EMAs, the trend direction, Strength, RSI, the ATRs and momentum, the pivots and both level lists slot by slot, every component of the three signal families, the signals, the hits, the tracked trade, the wins and losses and every dashboard quantity. The same bars are replayed through a build of the identical engine outside NinjaTrader, with no host in between, and every column is compared.

RUN	BARS	SERIES	CELLS	MISMATCHES
MNQ 1 Minute, historical load, NinjaTrader 8.1.9.0, default inputs	4,923	70	344,610	0
MNQ 1 Minute, across the switch from history to live bars, Calculate = OnEachTick	4,191	70	293,370	0

Bar times matched on every row, and the replay reads its prices from the same file. On this run the engine produced 172 BUY and 170 SELL signals, 55 bullish and 29 bearish divergences, 137 TP1, 64 TP2 and 141 stop hits, on the same bars on both sides. No STRONG signal fired on this run, so the STRONG columns compared zeros here.

What stage 2 proves: on a historical load and across the switch to live bars the host feeds the engine one closed bar per chart bar, in order, and the engine's outputs inside NinjaTrader equal a replay outside it. What it does not cover: how the surface paints is checked on a chart, not by this diff; the printed text is not a compared column; and none of this says anything about future performance.

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Licensing

License model

The product is distributed as a compiled NinjaScript Add-On and licensed through NinjaTrader's user-based Vendor Licensing (NinjaTrader 8.1.5.0 or later). A licence is tied to the customer's NinjaTrader account login, not to a machine: the same login works on every installation of NinjaTrader Desktop the customer uses, and no Machine ID has to be sent to the vendor. Licences are created in the NinjaTrader Ecosystem Vendor Dashboard against the customer's NinjaTrader account email address, with a licence type and an expiry date.

The indicator carries the `VendorLicense(productId)` call in its constructor, with the Product ID of its add-on in the Vendor Dashboard. NinjaTrader verifies the licence whenever the indicator is used.

No free trial

The product is sold as a paid licence only; no free trial is offered. A licence is issued to the buyer's NinjaTrader account email after payment, normally within a few hours.

Activation and transfer

Nothing to activate: log in to NinjaTrader with the licensed account. A new PC needs no transfer. NinjaTrader allows two simultaneous market-data sessions per account, which is what prevents a licence from being shared.

Behavior without a valid licence

NinjaTrader shows its own licence notice (invalid or expired) and stops calling the indicator's calculation and plot methods: the indicator draws nothing and raises no alerts, while its settings still load. It never places orders (it has no order code) and exposes no proprietary data. A licensing-server outage is handled by NinjaTrader's verification (it retries against a secondary server) and must never crash the chart.

Licensing is a practical access-control layer, not a guarantee against copying.

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Support

Questions go through the contact page at https://kestutisbalciunas.com/contact/ with the NinjaTrader version, the instrument and the chart interval. For an error, switch **09 NinjaTrader > Debug Mode** on, reproduce it once and attach `mtb_nt_debug.log` from the `Documents/NinjaTrader 8` folder; switch Debug Mode off afterwards.

The product page, with the documentation and the change log, is https://kestutisbalciunas.com/ninjatrader/momentum-tidebreaker/. Updates and refunds follow the terms on that page.

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Risk disclosure

Trading involves substantial risk. Past, simulated, and backtested performance is not necessarily indicative of future results.

Futures, foreign currency and options trading contains substantial risk and is not for every investor. An investor could potentially lose all or more than the initial investment. Risk capital is money that can be lost without jeopardizing one's financial security or lifestyle. Only risk capital should be used for trading and only those with sufficient risk capital should consider trading.

Momentum Tidebreaker is a technical analysis tool. It draws EMAs, signals, support and resistance levels and trade levels computed from bars; it does not place, modify or close orders and it gives no trade advice. The tracked trade and the W / L / WR row of the dashboard describe sets of levels on one chart with one group of settings, without fills, costs or slippage, and a trade replaced by a new signal is not counted: they are not a trading record. Nothing in the software or its documentation is a promise of returns, win rates or funded-account success.

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