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NINJATRADER 8 INDICATOR · NINJASCRIPT, C#

Installation and Quick Start

How to import the Add-On into NinjaTrader 8, add the indicator to a chart, and read what it draws.

PRODUCT	Momentum Tidebreaker for NinjaTrader 8
VERSION	1.0.0
DATE	November 2026
NINJATRADER	8.1.x Desktop, tested on 8.1.9.0
PACKAGE	`MomentumTidebreaker.zip`, compiled NinjaScript Add-On
SHA-256	`0fe3be9f4404ca7e51fb1d89489ee95765f44be6744e3cfa05bb36cb3ea6d27c`
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PRODUCT PAGE	https://kestutisbalciunas.com/ninjatrader/momentum-tidebreaker/

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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

FAMILY	BUY WHEN	SELL WHEN
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

ROW	LABEL	VALUE	COLOUR
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.
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`
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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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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