

# TurnTable EA

All prices are close prices unless otherwise specified.

## Rationale

The idea is to test whether dealers prefer to move price towards the path of least resistance (least expensive/most profitable for them). If we corral (guide) price by putting a dense grid of high volume pending orders behind it then (maybe) it is less attractive for price to reverse (in theory). Of course the dealers may still wish to activate one countertrend level before resuming the trend, so we will 'turn the table' and make it theoretically more attractive to continue with the activated direction than to reverse again and move through a dense grid of high volume orders.

## Trade Grid

1. Create a grid of five pending **buy** stops 100 points above current price (ask line) separated by 100 points. Each stop should have a TP (take profit) level 100 points distant. And SL (stop loss) 100 points away.
2. Create a grid of five pending **sell** stops 100 points below current price (bid line) separated by 100 points. Each stop should have a TP level 100 points away. And SL 100 points away.
3. Get the current trend of the most recent 60 chart bars (excluding the active bar). This only needs to be performed once at the EA initiation. No further trade logic depends on determining the trend.
4. Supposing the **trend is up** the volume amounts should be (in lots) from top to bottom:
  - a. 0.01
  - b. 0.01
  - c. 0.01
  - d. 0.01
  - e. 0.01 For the buy stops (since these are lower volume, call it the '**low pressure zone**' and
  - f. 0.05
  - g. 0.10
  - h. 0.20
  - i. 0.40
  - j. 0.80 For the sell stops. Since these are higher volume call it the '**high pressure zone**'
  - k. Note that the bid-ask spread is between level 'e' and 'f'.
5. If one of the buy stops gets triggered, simply move the whole structure up 100 points so that there are always five pending orders above price and five below with the same separation distances.
6. The grid will 'flip' like this each time any high pressure level is triggered. In theory this will always be the first level, as the other high pressure pending levels will likely never get a chance to be triggered unless there is a very fast spike.

7. If one of the sell stops now gets triggered, the whole grid 'flips' so that the volumes now look like this (viewed from top of screen to bottom of screen):
- a. 0.80
  - b. 0.40
  - c. 0.20
  - d. 0.10
  - e. 0.05 For the buy stops and
  - f. 0.01
  - g. 0.01
  - h. 0.01
  - i. 0.01
  - j. 0.01 For the sell stops. In other words, prior pending orders are deleted and a new grid with this structure replaces it.
  - k. If the trend was **down** these instructions would be exactly inverted. So before any high pressure level is activated the grid would look like:
    - i. 0.80
    - ii. 0.40
    - iii. 0.20
    - iv. 0.10
    - v. 0.05 For the buy stops (high pressure zone) and
    - vi. 0.01
    - vii. 0.01
    - viii. 0.01
    - ix. 0.01
    - x. 0.01 For the sell stops (low pressure zone). The bid-ask spread is between v. and vi.

### Trade Limits - exclusion zone

- To avoid overtrading a new trade of the same type (long or short) cannot be opened within 100 points of an existing trade. In other words, a long trade must be 100 points higher than a current active long. A short trade must be at least 100 points lower than a current active short. Call this the '**exclusion zone**'.
- In addition, each new long order must be at a higher price than the highest-priced active trade, otherwise, do not place the pending order.
- Each new short order must be at a lower price than the lowest-priced active trade, otherwise do not place the pending order.
- The purpose of these rules is to avoid adding a series of losing trades at every minor retrace.

### Martingale option

Disabled by default. When this is enabled, the first high pressure volume level will be doubled after each successive high pressure level is triggered.

1. For example, imagine the price trend is down. The high pressure grid is above price.

2. Price spikes up and triggers a long high pressure trade at 0.05 lots. The grid flips.
3. Now the high pressure zone is beneath price. The first high pressure level (short) should be 0.1 lots (not 0.05) and the following levels are 0.2, 0.4, 0.8, 1.6.
4. After a while, the price spikes down again, the grid flips.
5. Now the high pressure zone is beneath price again. The first high pressure level will be 0.2, and the next 0.4 and so forth.
6. Once a high pressure trade exits, the martingale level decreases to match.
7. If martingale is enabled the current martingale level should be printed to screen.
8. The maximum number of doublings is set in settings (see below)

### **Inverse option**

Disabled by default.

When enabled this puts the larger orders (high pressure zone) in the path of the trend direction (inverse of the regular procedure). An activation of the first **low pressure** level will 'flip' the grid.

### **Failsafe**

If account drawdown exceeds this value, close all trades and exit EA with a notification/alert

### **Volumes**

One value comma-separated per slot

Low pressure: 0.01, 0.01, 0.01, 0.01, 0.01 (in lots)

High pressure: 0.05, 0.10, 0.20, 0.40, 0.80 (in lots)

### **Entries**

Enter normally with pending levels. A spread check (don't enter when spread is too large) would be good to have, and any other cautions that you might recommend based on experience, is appreciated.

### **Exits**

Trades exit normally at TP and SL levels. Since we are not using hidden orders this should not I think, need to be controlled by EA? BUT

(optional - disabled by default)

Exit all trades early when a losing trade is active and current total profitable trades > losing trades + swap + commissions + profit\_buffer.

### **Settings and their default values<sup>1</sup>**

Number of slots in high pressure group: 5

Number of slots in low pressure group: 5

Distance from price for low pressure (low volume) group: 100 points

Distance from price for high pressure (high volume) group: 100 points

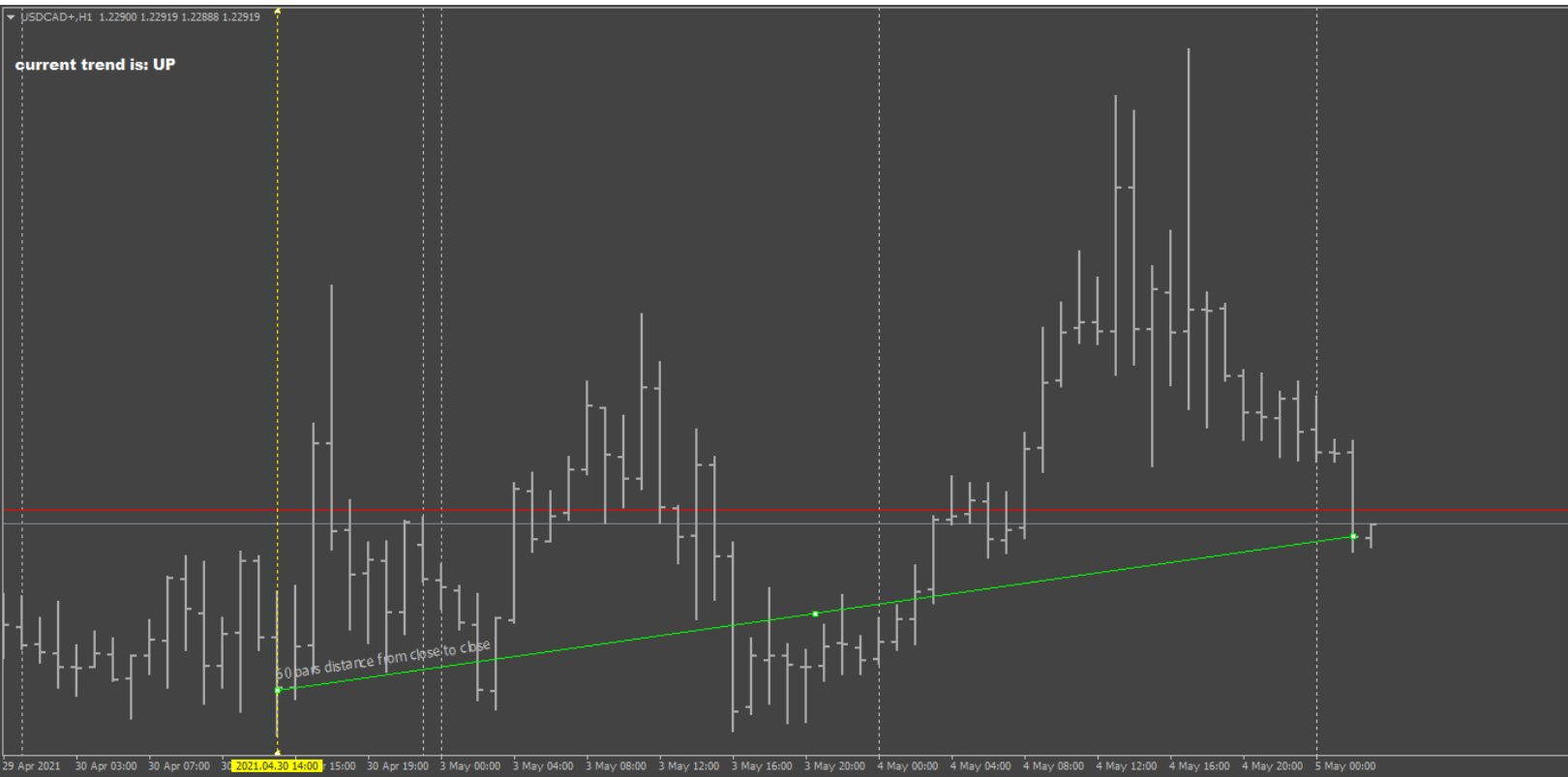
Separator distance between pending orders: 100 points

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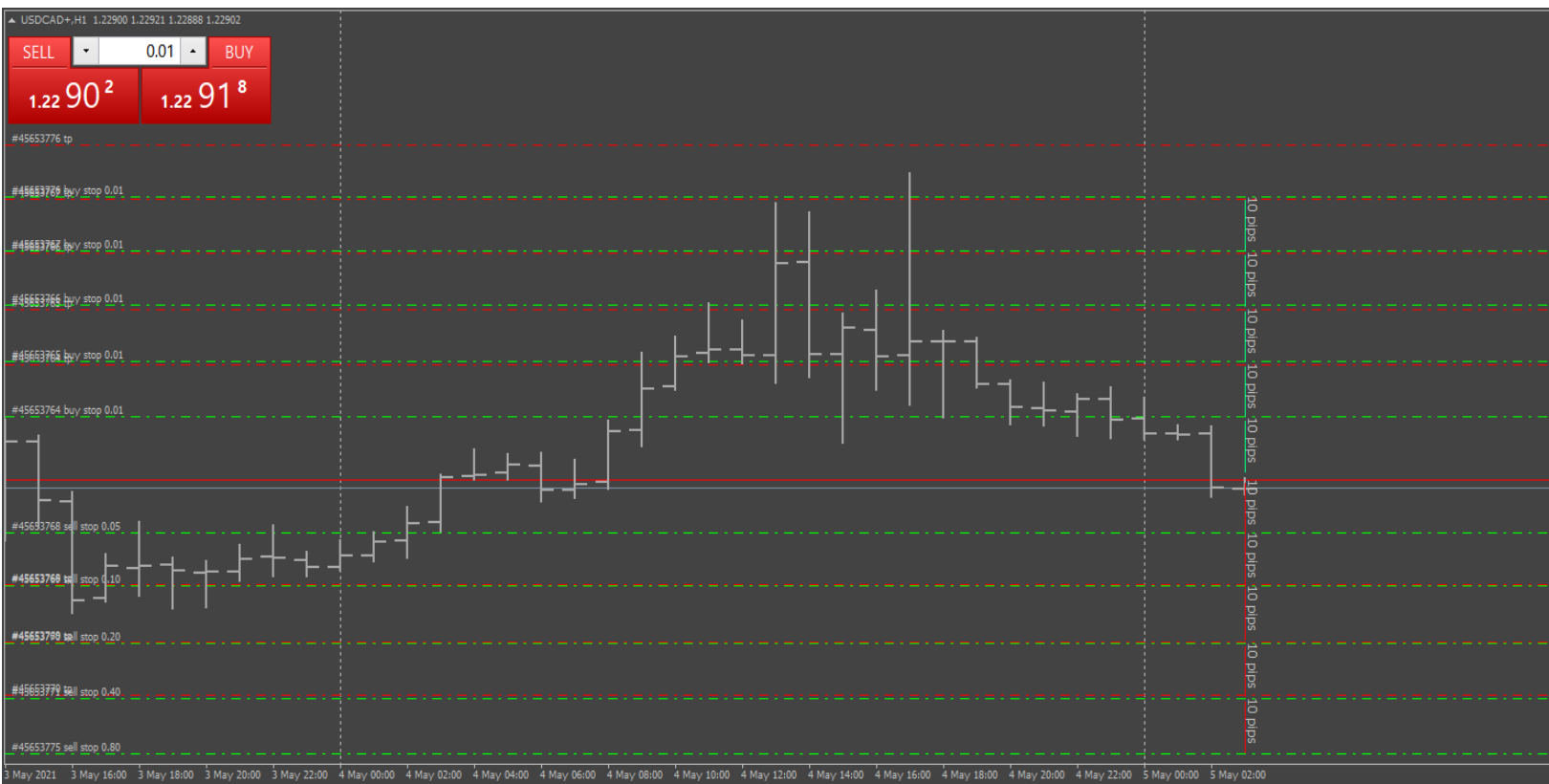
<sup>1</sup> This list may be incomplete. Please suggest any that you find are missing.

TP distance in points: 100 points (zero disables the TP)  
SL distance in points 100 points (zero disables the SL)  
Minimum size exclusion zone before a new trade can be opened: 100 points  
Trend lookahead: 60 bars  
Martingale: false  
Max\_doublings: 3  
Inverse: false  
Failsafe: \$500  
Early\_exit: false  
Profit\_buffer: \$10 (for early exit)  
Magic Number: 100 (to use EA on multiple charts)

Example charts follow



Trend is up measured from bar 60 (not counting bar0) close price to close price



1. 5 pending orders above the ask price and 5 below the bid price separated by 10 pips with TP and SL levels. The high pressure zone is beneath price.
2. Volume of long trades is 0.01
3. Volume of short trades varies as per settings
4. If trade #45653768 (sell stop 0.05) is activated, the grid will flip around and re-position itself (inverted) on either side of the ask-bid spread. Now larger volume trades are above price and 0.01 trades are below.
5. If trade #45653764 (buy stop 0.01) is activated, the grid will reposition itself on either side of price, but the volume order will remain the same. A new 0.01 buy stop will be added to maintain 5 slots in the low pressure zone.

If you would like me to create more chart examples for something, please let me know.

**My private notes (please ignore)**

"The threat is stronger than the execution." -Aron Nimzowitsch

"I got two turntables and a microphone." - Beck Hansen

~~If both long and short are hedged? Ignore? yes~~

~~If the trend is flat? Switch all to 0.01? No~~

~~Add TP orders at a fixed distance of 20 points (1:1 ratio to see if it's random or not)? yes~~