

## EA SSUSJ24 ROBOT

6 Patterns in all 9 Timeframes.

This EA is completely based on candlesticks using ZigZag indicator on MT4.

1. Head and Shoulder (H)
2. Inverse Head and Shoulder (iH)
3. M pattern (M)
4. M inverse (iM)
5. W pattern (W)
6. W inverse (iW)

Timeframes: M1, M5, M15, M30, H1, H4, Daily, Week, Month. (Multi-TF)

Attach this EA to one chart window. *It should be able to trade all the patterns in all the timeframes using just one chart window.*

Indicator: Zigzag (3,5,2) *Change Zigzag from detecting High/Low to Closed price.*

Each Patterns must have its own unique identity number.

*It will be easy to track and record the trades.*

1 Pattern = 1 Zone = 1 Trade.

*There can be 100 zones leading to 100 active trades at the same time.*

This Product should work with all currencies, commodities, stocks, crypto, and everything available to trade on Metatrader 4.

There are 4 phases to this project. In the first development, you need to complete Phase 1-3, Once checked and edited; Continue with Phase 4.

Phase 1: Pattern Detection

Phase 2: Zone Detection

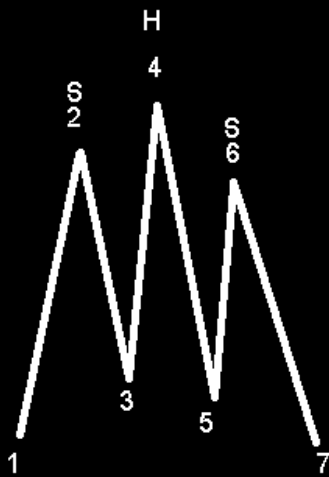
*(Create a separate block in where you just detect all zones once and use it whenever required so you don't have to look back for it again and again.)*

Phase 3: Trade Execution and Switching

Phase 4: Trade Handling

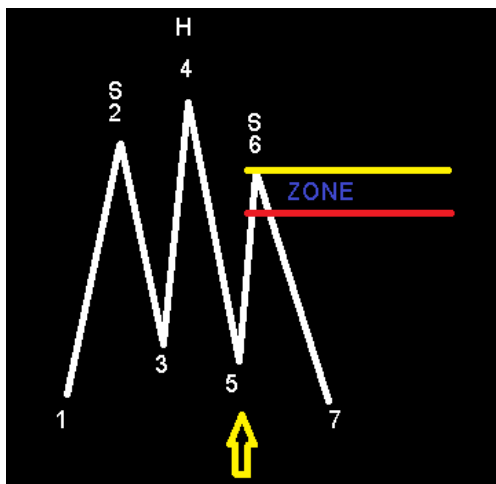
*(Trading all patterns together in continuous order; Completely automated and to be tested.)*

## 1. Head and Shoulder (H)



### Phase 1 Pattern 1: Pattern Detection

- 1.1. (2) Can be lower or higher than (6) and not higher than (4)
- 1.2. (3) Can be lower or higher than (5)
- 1.3. Start Looking for this pattern once (5) has been completed and look for (6)
- 1.4. Check that (6) doesn't close above (4), if it does = **Pattern Fail**. Close all existing trades related to this pattern.
- NOTE: It is acceptable if (6) crosses higher than (4) but it shouldn't close above (4).
- 1.5. Once (6) has been completely detected, if there is no trade executed and candle closes below (3) or (5). It would've been too slow to execute the trade = **No Trade**.
- 1.6. Keep in mind; Repainting and confirmation.



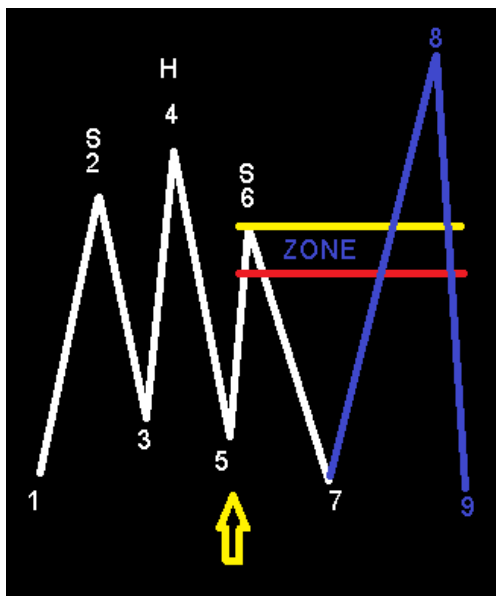
### Phase 2 Pattern 1: Detect Zones using Pinbar Zones Strategy from beginning of pattern. 1<sup>st</sup> candle in the lowest TF.

*For example; If you detect a pattern in H1, and (1) is at 10.02.2022 at 12.00, you need to detect all zones since 10.02.2022 12.00 in Timeframes M1, M5, M15, M30, H1, H4, D1*

### Phase 3 Pattern 1: Trade

- 1.1. After Detecting (5), Look for Pinbar Zone and **trade SELL** once the price closes below the lower line (RED Line).
- Stoploss:** If candle in trading timeframe closes above the higher line (YELLOW Line), close **SELL** and open trade **BUY**
- Stoploss:** If candle in trading timeframe closes below the lower line (RED Line), close **BUY** and open trade **SELL** again. Keep doing this until **Trade completes**.

- 1.2. Keep Executing a trade once you have a better zone in the same pattern until (7) last leg completes. (Keep in mind, 1 Pattern = 1 Zone = 1 Trade, there may be multiple zones in 1 Pattern, We trade them all).

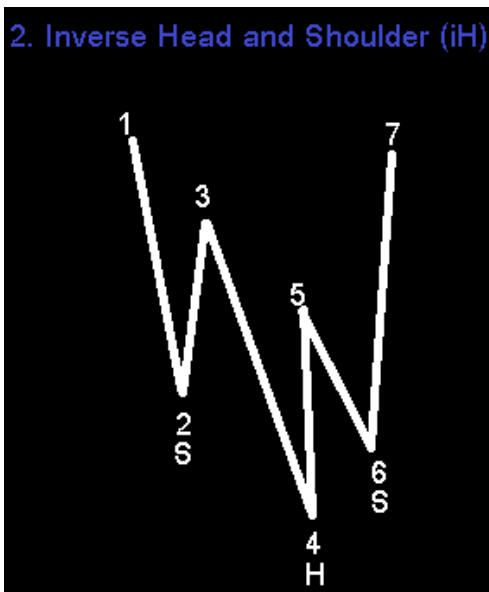


### Keep the highest zones until Trade/Martingale completed.

- 1.3. If there are multiple trades in 1 pattern, We only keep 1 Zone (Best Zone). We close the trades in other weaker zones after \$1 profit.
- 1.4. Pattern Completion is when the candle closes above/below highest/lowest price in 2 Timeframes bigger than Pattern Detection timeframe.
- 1.5. Once pattern completes, we close the trade only if it is in profit **Trade Completed**, If the pattern completes, if martingale trade not in profit more than \$1, the trade continues and switches until this trade makes \$1 profit **Martingale Completed**.

Send all Data to Excel

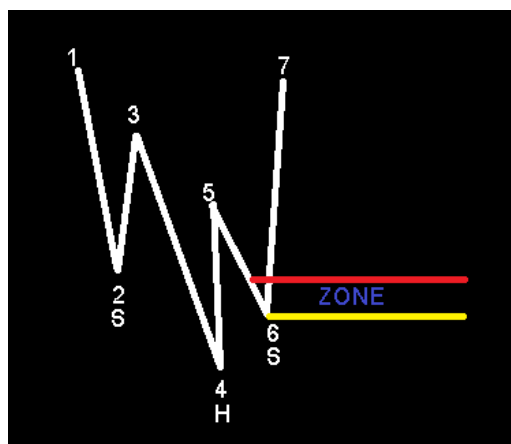
## 2. Inverse Head and Shoulder (iH)



### Phase 1 Pattern 2: Pattern Detection

- 1.1. (2) Can be lower or higher than (6) and not lower than (4)
- 1.2. (3) Can be lower or higher than (5)
- 1.3. Start Looking for this pattern once (5) has been completed and look for (6)
- 1.4. Check that (6) doesn't close below (4), if it does = **Pattern Fail**.  
Close all existing trades related to this pattern.  
NOTE: It is acceptable if (6) crosses lower than (4) but it shouldn't close below (4).
- 1.5. Once (6) has been completely detected, if there is no trade executed and candle closes above (3) or (5). It would've been too slow to execute the trade = **No Trade**.

1.6. Keep in mind; Repainting and confirmation.



**Phase 2 Pattern 2: Detect Zones** using Pinbar Zones Strategy from beginning of pattern.

*For example; If you detect a pattern in H1, and (1) is at 10.02.2022 at 12.00, you need to detect all zones since 10.02.2022 12.00 in Timeframes M1, M5, M15, M30, H1, H4, D1*

### Phase 3 Pattern 2: Trade

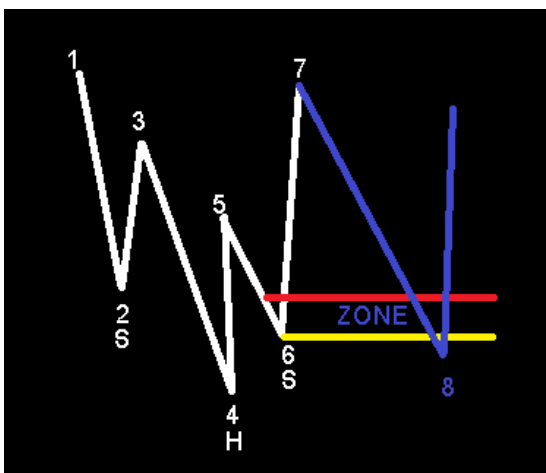
1.1. After Detecting (5), Look for Pinbar Zone and **trade BUY** once the price closes above the higher line (RED Line).

**Stoploss:** If candle in trading timeframe closes below the lower line (YELLOW Line), close **BUY** and open trade **SELL**

Stoploss: If candle in trading timeframe closes above the higher line (RED Line), close **SELL** and open trade **BUY** again. Keep doing this until **Trade Completes**.

1.2. Keep Executing a trade once you have a better zone in the same pattern until (7) last leg completes. (Keep in mind, 1 Pattern = 1 Zone = 1 Trade, there may be multiple zones in 1 Pattern, We trade them all).

**Keep the lowest zones until Trade/Martingale completed.**



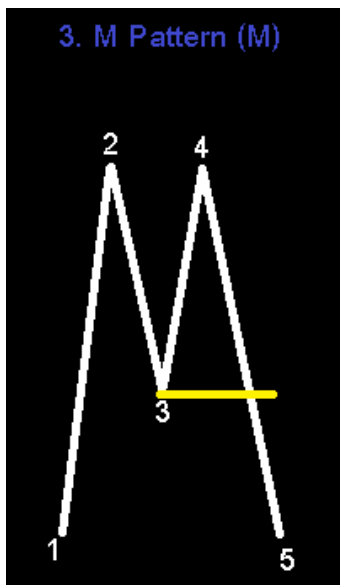
1.3. If there are multiple trades in 1 pattern, We only keep 1 Zone (Best Zone). We close the trades in other weaker zones after \$1 profit.

1.4. Pattern Completion is when the candle closes above/below highest/lowest price in 2 Timeframes bigger than Pattern Detection timeframe.

1.5. Once pattern completes, we close the trade only if it is in profit **Trade Completed**, If the pattern completes, if martingale trade not in profit more than \$1, the trade continues and switches until this trade makes \$1 profit **Martingale Completed**.

**Send all Data to Excel**

### 3. M Pattern (M)

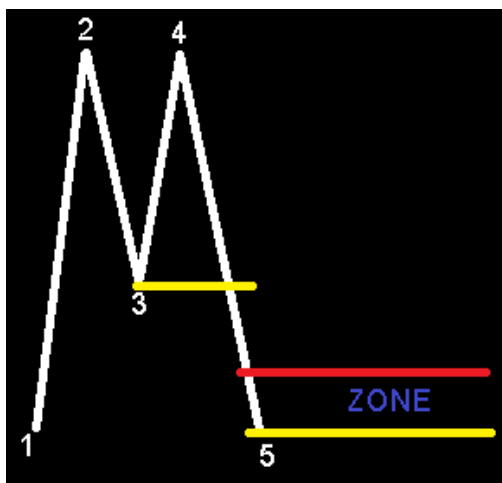


#### Phase 1 Pattern 3: Pattern Detection

- 1.1. (2) Can be lower or higher than (4)
- 1.2. (1) Can be lower or higher than (5)
- 1.3. (3) has to be higher than (1) and (5)
- 1.4. Start Looking for this pattern once (4) has closed below (3) and look for (5)
- 1.5. Once (5) has been completely detected, if there is no trade executed and candle closes above (2) or (4). It would've been too slow to execute the trade = **No Trade**.
- 1.6. Keep in mind; Repainting and confirmation.

**Phase 2 Pattern 3:** Detect Zones using Pinbar Zones Strategy from beginning of pattern.

*For example; If you detect a pattern in H1, and (1) is at 10.02.2022 at 12.00, you need to detect all zones since 10.02.2022 12.00 in Timeframes M1, M5, M15, M30, H1, H4, D1*



#### Phase 3 Pattern 3: Trade

1.1. After Detecting (4), wait for candle to close below (3) and Look for Pinbar Zone and **trade BUY** once the price closes above the higher line (RED Line).

**Stoploss:** If candle in trading timeframe closes below the lower line (YELLOW Line), close **BUY** and open trade **SELL**. Stoploss: If candle in trading timeframe closes above the higher line (RED Line), close **SELL** and open trade **BUY** again. Keep doing this until **Trade Completes**.

1.2. Keep Executing a trade once you have a better zone in the same pattern until (7) last leg completes.

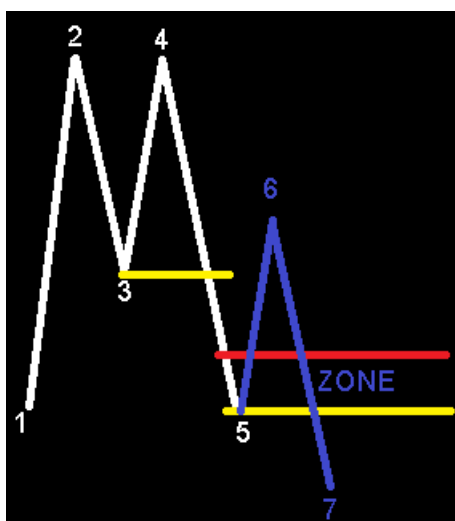
*(Keep in mind, 1 Pattern = 1 Zone = 1 Trade, there may be multiple zones in 1 Pattern, We trade them all).*

#### Keep the lowest zones until Trade/Martingale completed.

1.3. If there are multiple trades in 1 pattern, We only keep 1 Zone (Best Zone). We close the trades in other weaker zones after \$1 profit.

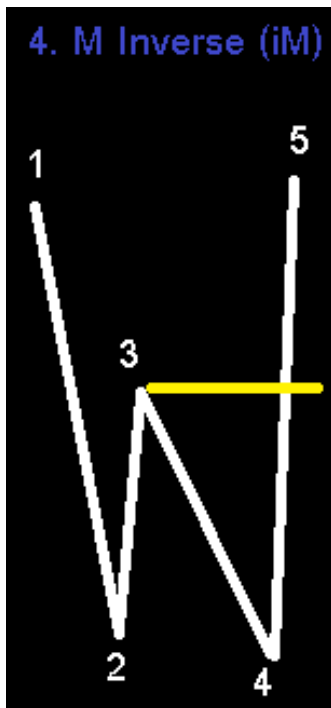
1.4. Pattern Completion is when the candle closes above/below highest/lowest price in 2 Timeframes bigger than Pattern Detection timeframe.

1.5. Once pattern completes, we close the trade only if it is in profit **Trade Completed**. If the pattern completes, if martingale trade not in profit more than \$1, the trade continues and switches until this trade makes \$1 profit **Martingale Completed**.



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#### 4. M Inverse (iM)

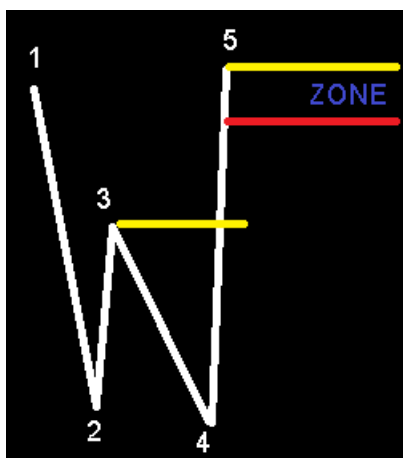


##### Phase 1 Pattern 4: Pattern Detection

- 1.1. (2) Can be lower or higher than (4)
- 1.2. (1) Can be lower or higher than (5)
- 1.3. (3) has to be lower than (1) and (5)
- 1.4. Start Looking for this pattern once (4) has closed above (3) and look for (5)
- 1.5. Once (5) has been completely detected, if there is no trade executed and candle closes below (2) or (4). It would've been too slow to execute the trade = **No Trade**.
- 1.6. Keep in mind; Repainting and confirmation.

##### Phase 2 Pattern 4: Detect Zones using Pinbar Zones Strategy from beginning of pattern.

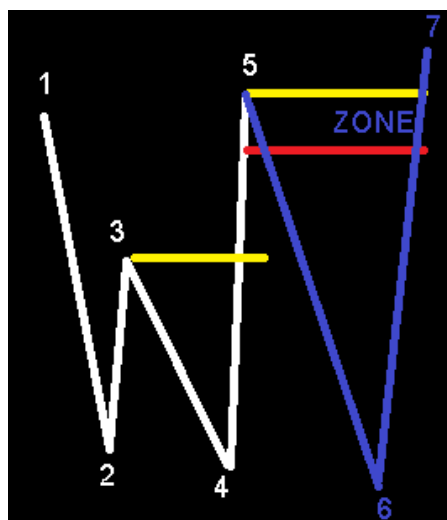
*For example; If you detect a pattern in H1, and (1) is at 10.02.2022 at 12.00, you need to detect all zones since 10.02.2022 12.00 in Timeframes M1, M5, M15, M30, H1, H4, D1*



##### Phase 3 Pattern 4: Trade

- 1.1. After Detecting (4), wait for candle to close above (3) and Look for Pinbar Zone and **trade SELL** once the price closes below the lower line (RED Line). **Stoploss:** If candle in trading timeframe closes above the higher line (YELLOW Line), close **SELL** and open trade **BUY** Stoploss: If candle in trading timeframe closes below the lower line (RED Line), close **BUY** and open trade **SELL** again. Keep doing this until **Trade Completes**.
- 1.2. Keep Executing a trade once you have a better zone in the same pattern until (7) last leg completes.  
(Keep in mind, 1 Pattern = 1 Zone = 1 Trade, there may be multiple zones in 1 Pattern, We trade them all).

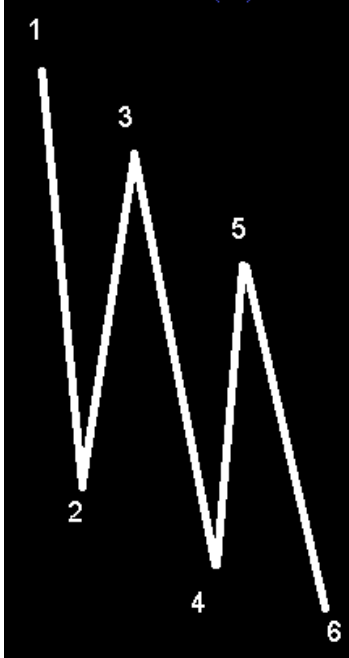
**Keep the highest zones until Trade/Martingale completed.**



- 1.3. If there are multiple trades in 1 pattern, We only keep 1 Zone (Best Zone). We close the trades in other weaker zones after \$1 profit.
- 1.4. Pattern Completion is when the candle closes above/below highest/lowest price in 2 Timeframes bigger than Pattern Detection timeframe.
- 1.5. Once pattern completes, we close the trade only if it is in profit **Trade Completed**, If the pattern completes, if martingale trade not in profit more than \$1, the trade continues and switches until this trade makes \$1 profit **Martingale Completed**.

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### 5. W Pattern (W)

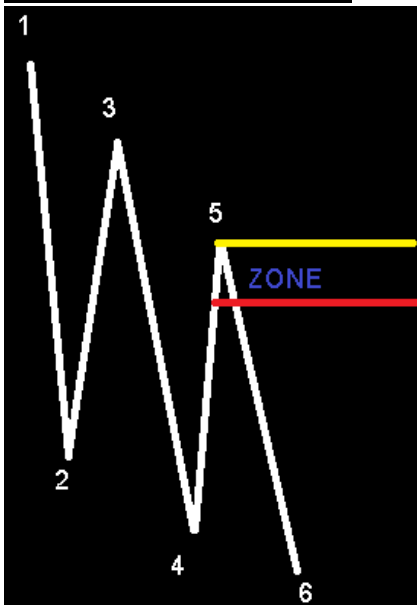


#### Phase 1 Pattern 5: Pattern Detection

- 1.1. (1) has to be higher than (3)
- 1.2. (2) has to be higher than (4)
- 1.3. (5) cannot be higher than (3); *If it is higher, it will be a different pattern.*
- 1.4. Start Looking for this pattern once (4) has closed and look for (5)
- 1.5. Once (5) has been completely detected, if there is no trade executed and candle closes below (4). It would've been too slow to execute the trade = **No Trade.**
- 1.6. Keep in mind; Repainting and confirmation.

#### Phase 2 Pattern 5: Detect Zones using Pinbar Zones Strategy from beginning of pattern.

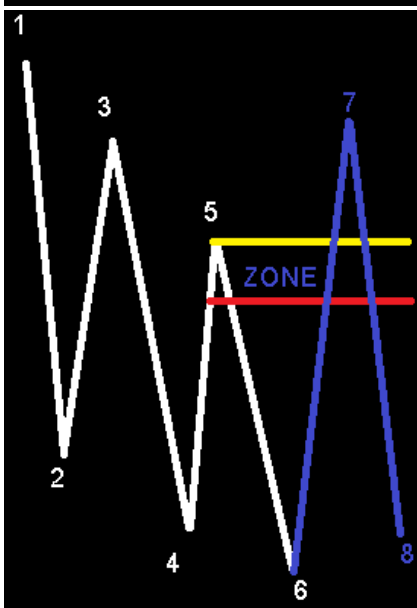
*For example; If you detect a pattern in H1, and (1) is at 10.02.2022 at 12.00, you need to detect all zones since 10.02.2022 12.00 in Timeframes M1, M5, M15, M30, H1, H4, D1*



#### Phase 3 Pattern 5: Trade

- 1.1. After Detecting (4), Look for Pinbar Zone and **trade SELL** once the price closes below the lower line (RED Line).  
**Stoploss:** If candle in trading timeframe closes above the higher line (YELLOW Line), close **SELL** and open trade **BUY** Stoploss: If candle in trading timeframe closes below the lower line (RED Line), close **BUY** and open trade **SELL** again. Keep doing this until **Trade Completes**.
- 1.2. Keep Executing a trade once you have a better zone in the same pattern until (7) last leg completes.  
*(Keep in mind, 1 Pattern = 1 Zone = 1 Trade, there may be multiple zones in 1 Pattern, We trade them all).*

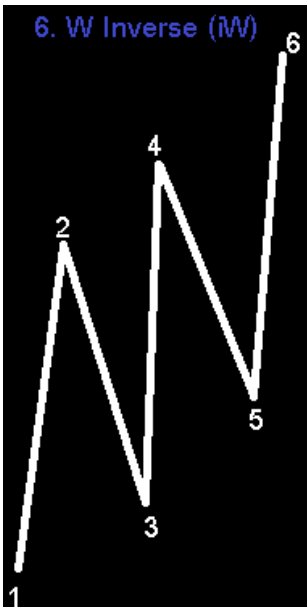
#### Keep the highest zones until Trade/Martingale completed.



- 1.3. If there are multiple trades in 1 pattern, We only keep 1 Zone (Best Zone). We close the trades in other weaker zones after \$1 profit.
- 1.4. Pattern Completion is when the candle closes above/below highest/lowest price in 2 Timeframes bigger than Pattern Detection timeframe.
- 1.5. Once pattern completes, we close the trade only if it is in profit **Trade Completed**, If the pattern completes, if martingale trade not in profit more than \$1, the trade continues and switches until this trade makes \$1 profit **Martingale Completed**.

**Send all Data to Excel**

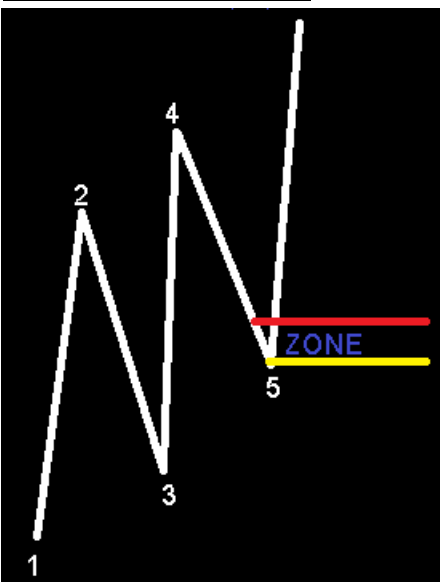
## 6. W Inverse (W)



### Phase 1 Pattern 6: Pattern Detection

- 1.1. (1) has to be lower than (3)
- 1.2. (2) has to be lower than (4)
- 1.3. (5) cannot be lower than (3); *If it is lower, it will be a different pattern.*
- 1.4. Start Looking for this pattern once (4) has closed and look for (5)
- 1.5. Once (5) has been completely detected, if there is no trade executed and candle closes above (4). It would've been too slow to execute the trade = **No Trade.**
- 1.6. Keep in mind; Repainting and confirmation.

**Phase 2 Pattern 6:** Detect Zones using Pinbar Zones Strategy from beginning of pattern.



*For example; If you detect a pattern in H1, and (1) is at 10.02.2022 at 12.00, you need to detect all zones since 10.02.2022 12.00 in Timeframes M1, M5, M15, M30, H1, H4, D1*

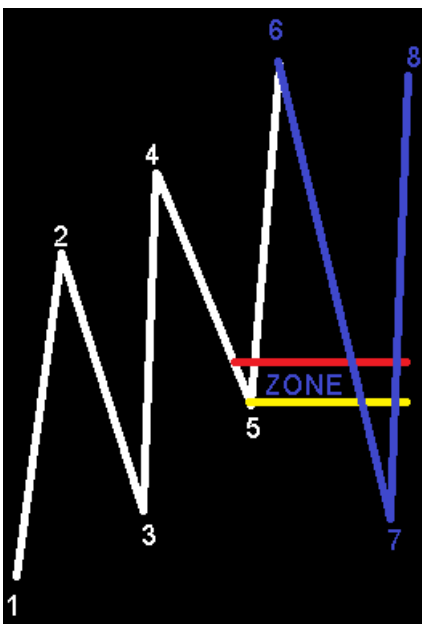
### Phase 3 Pattern 6: Trade

- 1.1. After Detecting (4), Look for Pinbar Zone and **trade BUY** once the price closes above the higher line (RED Line).

**Stoploss:** If candle in trading timeframe closes below the lower line (YELLOW Line), close **BUY** and open trade **SELL** Stoploss: If candle in trading timeframe closes above the higher line (RED Line), close **SELL** and open trade **BUY** again. Keep doing this until **Trade Completes.**

- 1.2. Keep Executing a trade once you have a better zone in the same pattern until (7) last leg completes.

*(Keep in mind, 1 Pattern = 1 Zone = 1 Trade, there may be multiple zones in 1 Pattern, We trade them all).*



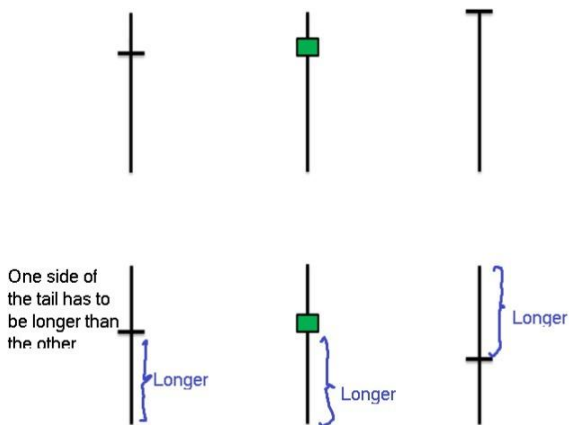
### Keep the lowest zones until Trade/Martingale completed.

- 1.3. If there are multiple trades in 1 pattern, We only keep 1 Zone (Best Zone). We close the trades in other weaker zones after \$1 profit.
- 1.4. Pattern Completion is when the candle closes above/below highest/lowest price in 2 Timeframes bigger than Pattern Detection timeframe.
- 1.5. Once pattern completes, we close the trade only if it is in profit **Trade Completed**, If the pattern completes, if martingale trade not in profit more than \$1, the trade continues and switches until this trade makes \$1 profit **Martingale Completed.**

**Send all Data to Excel**

## Zone Selection Details

### Types of Pinbar

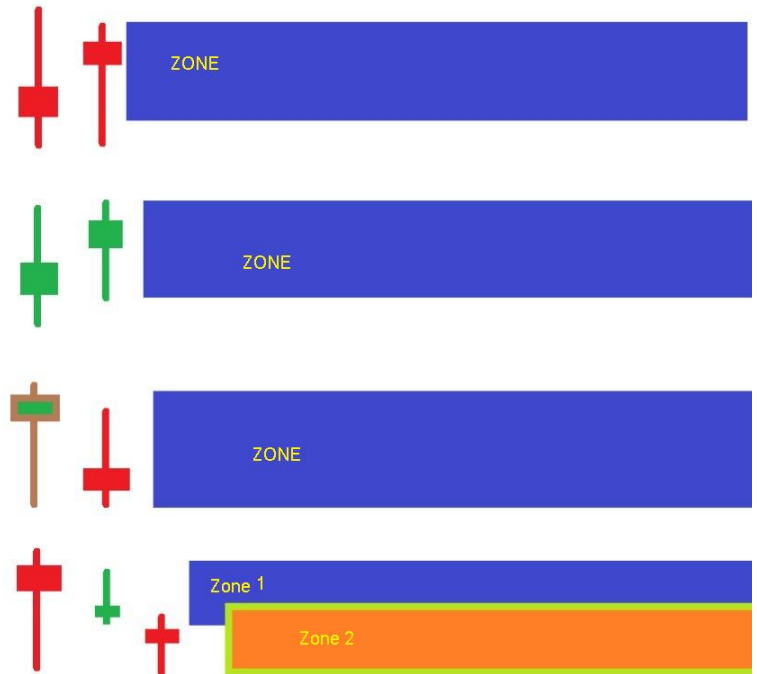


If the Longer Tail is upwards of the candle "refer" as Upward Pinbar  
If the Longer tail is downwards of the candle "refer" as Downward Pinbar

- A candle which has a body not more than 40% of the highest to the lowest price. (Manual Input Set)
- Please make the color of the zone same as the color of patterns to avoid confusion
- TF from Minute1 - Month
- opposite bars make a pair
- total number of bars is 8 bars the first bar and Eighth Bar need to be this in opposites. So a space of 6 bars in between is fine.
- the 2 opposite bars need to have a common price of 0.00001 atleast

The Zones can be overlapping, Let it overlap and "consider" as separate zone

### How to Draw Support and Resistance Line



Take whole body of the first candle till the highest of lowest point of last candle.

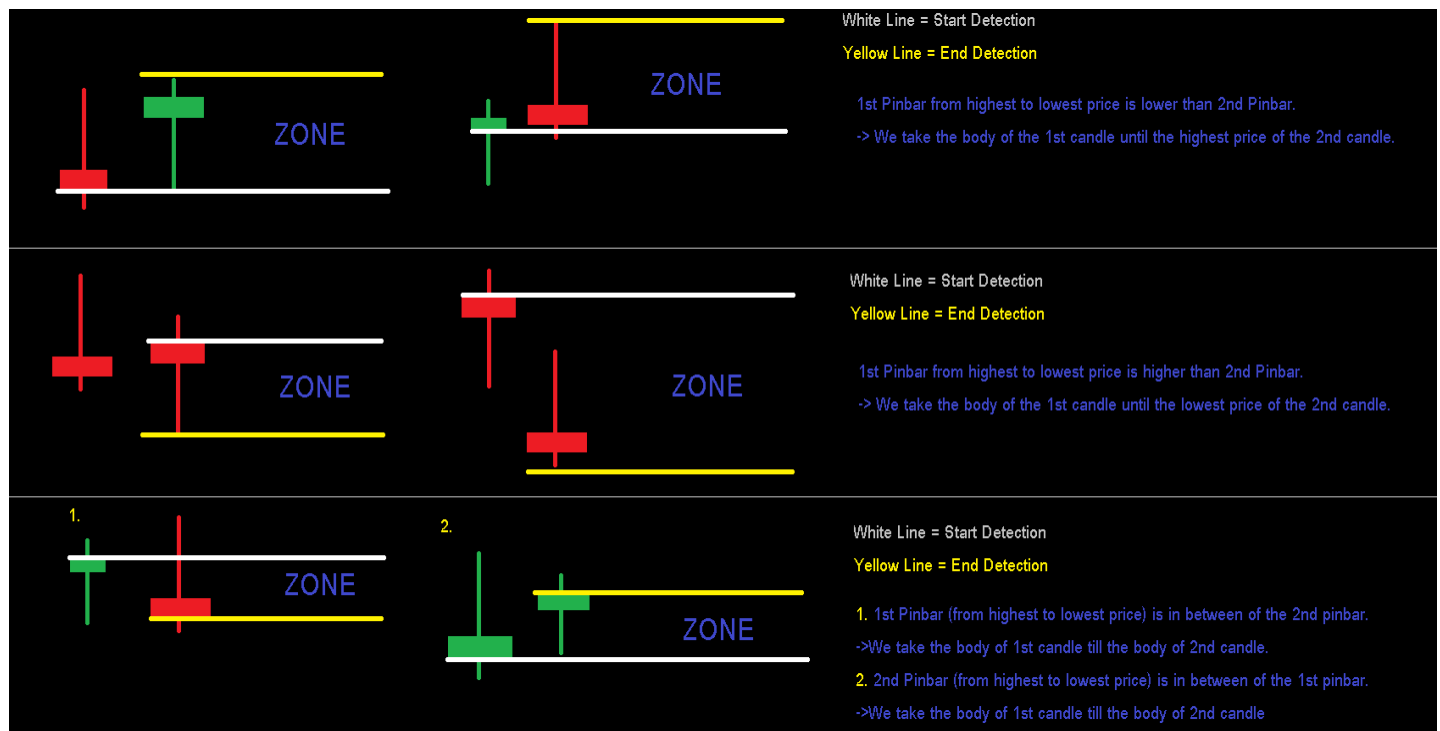
Any candle color can be first or last.

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Detect Fake breakout & Pinbar Zone in Pattern Detection Timeframe, and 2 bigger timeframe and all smaller timeframes.

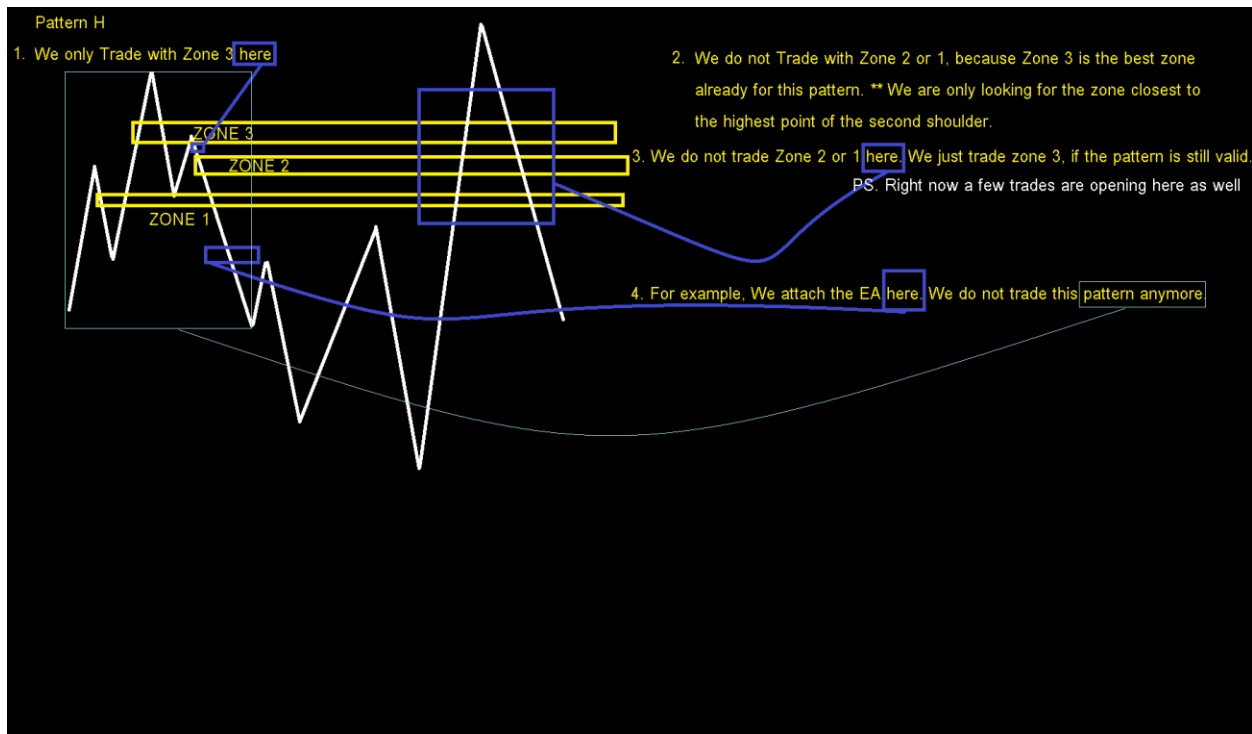
- For example; 1. Pattern Detected in M15, Look for Pinbar Zone in M15, M30, H1, M5, M1 in any order.
2. Pattern Detected in D1, Look for Pinbar Zone in D1, Week, Month, H4, H1, M30, M15, M5, M1.
3. Pattern Detected in M1, Look for Pinbar Zone in M1, M5, M15.

NOTE: 8<sup>th</sup> candle of the PB Zone can be the first candle of the pattern.



How to select zone if there are 2 or more zones available?

Incase Zone in smaller timeframe is the first detected zone and later Zone in a larger timeframe is the second detected zone but both the zones have the same lowest price, we only trade with one zone and closest zone. Trade with smaller zone.



## Trade Handling 1

Execute all trades and handle them separately and independently.

- 1.1. Apply Martingale (Set multiplier in input) once trade switches every 2 trades. *For example, 1<sup>st</sup> Trade is Sell, 0.01, 2<sup>nd</sup> trade is Buy, 0.01, Apply Martingale in the 3<sup>rd</sup> Trade is Sell, (Multiplier 2) 0.02, 4<sup>th</sup> Trade is Buy, 0.02, 5<sup>th</sup> Trade is Sell (Multiplier 2) 0.04 . Apply Martingale to Trades 1,3,5,7 onwards until 99 trades.*
- 1.2. Once a trade has been switching, martingale applied, Partially close trade and leave only 0.01 **after it covers all loses and makes \$1 Profit**. Set SL 30 points in profit side from execution.
- 1.3. Add an option to close half the martingale trades and keep them open.
- 1.3. If trade doesn't switch and pattern is completed in the monitored timesframes, Close Trade. = **Trade Completed.**

Send all Data to excel

**Pattern Detection TF, The Zones TF which should be involved and Pattern Completion Timeframe.**

PATTERN DETECTION TIMEFRAME	ZONES	PATTERN COMPLETE TIMEFRAME
M1	M1, M5, M15	M15
M5	M1, M5, M15, M30	M30
M15	M1, M5, M15, M30, H1	H1
M30	M1, M5, M15, M30, H1, H4	H4
H1	M1, M5, M15, M30, H1, H4, D	D
H4	M1, M5, M15, M30, H1, H4, D, W	W
D	M1, M5, M15, M30, H1, H4, D, W, M	M
W	M1, M5, M15, M30, H1, H4, D, W, M	M
M	M1, M5, M15, M30, H1, H4, D, W, M	M

**Example:**

***If Pattern is detected in M1, Check nearest zones in M1, M5, M15 to place trades in the direction required by the pattern.***

### **Information required on Excel.**

#### Phase 1 (Pattern Detection)

- Record Date/Time
- Unique Pattern number
- Pattern Type (M, iM, W, iW, HS, iHS)
- Timeframe (TF)
- Detected Date/Time
- Highest/Lowest Price of Pattern *To determine the pattern completion.*
- Reason (Pattern Fail, No Trade, Fake Breakout, Pattern Completed)

#### Phase 2 (Pinbar Zones)

- Unique Zone Number
- PB Zone (yes/no)
- TF (which TF is the Zone in? <Only relevant zone to the pattern>)
- Date, Time, Price from the first pinbar candle
- Date, Time, Price till the second candle

#### Phase 3 (Trade Open/Closed/Switching)

- Order Ticket Number, Date, Time, TF, P/L

#### Phase 4 (Fake breakout)

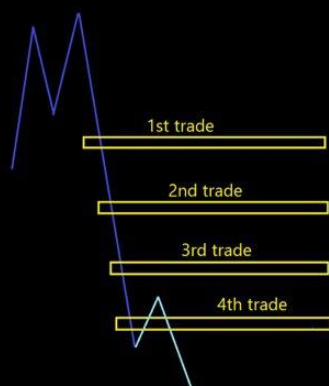
- Fakeout (Yes/No)
- TF *(Which timeframe is the fakebreakout detected in?)*
- Date, Time of First candle of Fakebreakout
- Date, Time of Second candle of Fakebreakout

#### Phase 5 (Trade Handling)

- Method(1,2,3) with reasoning and explanation.
- Money Management, Partial Close may apply later to positions depending on criteria.

*Thank you.*

## SSUSJ24 MONEY MANAGEMENT



When the 1st trade BUY from the PB Zone executes, No Martingale applied.  
When the 1st trade switches SELL, no martingale applied.  
Wait for trade to complete and Set a SL at \$1 profit after breakeven.

When the 1st trade switches back to BUY, Apply multiplication,  
and Close Trade once profit is at \$1 after breakeven.  
When the 1st trade switches back to SELL, Apply multiplication,  
and Close Trade once profit is at \$1 after breakeven.

Repeat until pattern completed.

In the scenario that the pattern has 1 trade (1 trade executed),  
After Martingale, Once the trade has hit \$1 profit after breakeven including all the loss of switching the trade. Partially close the trade and leave only 0.01 Lotsize opened.

In the scenario that the pattern has more than 1 trade (2 trades executed),  
After Martingale, Once the first trade and second trade has hit \$1 profit per zone after breakeven including all the loss of switching the first and second trade, Close all trades except the best zone of the pattern. In case the second trade has also switched and multiplied, partially close the trade and leave only 0.01 Lotsize opened.

In the scenario that the pattern has more than 2 trades (3 trades executed),  
After Martingale, Once the first trade, second trade and third trade combined should make minimum profit of \$1 per zone after breakeven and cover the losses of all zones of the Pattern and close all trades except the best zone of that pattern. In case the third trade has also multiplied, partially close the trade and leave only 0.01 Lotsize opened.

Once the best zone trade is opened, close according to  
Method (1) Set SL 30 points from execution once pattern completed.  
Method (2) once pattern completed.

### Remarks:

1. If the Best zone trade switches, apply Martingale and repeat the process above until pattern is completed.
2. When you partially close a trade, it should already take \$1 profit with all the losses of switching involved.

All Profit trades of BUY should be calculated based on BID Price.  
All Profit trades of SELL should be calculated based on ASK Price.

### Input:

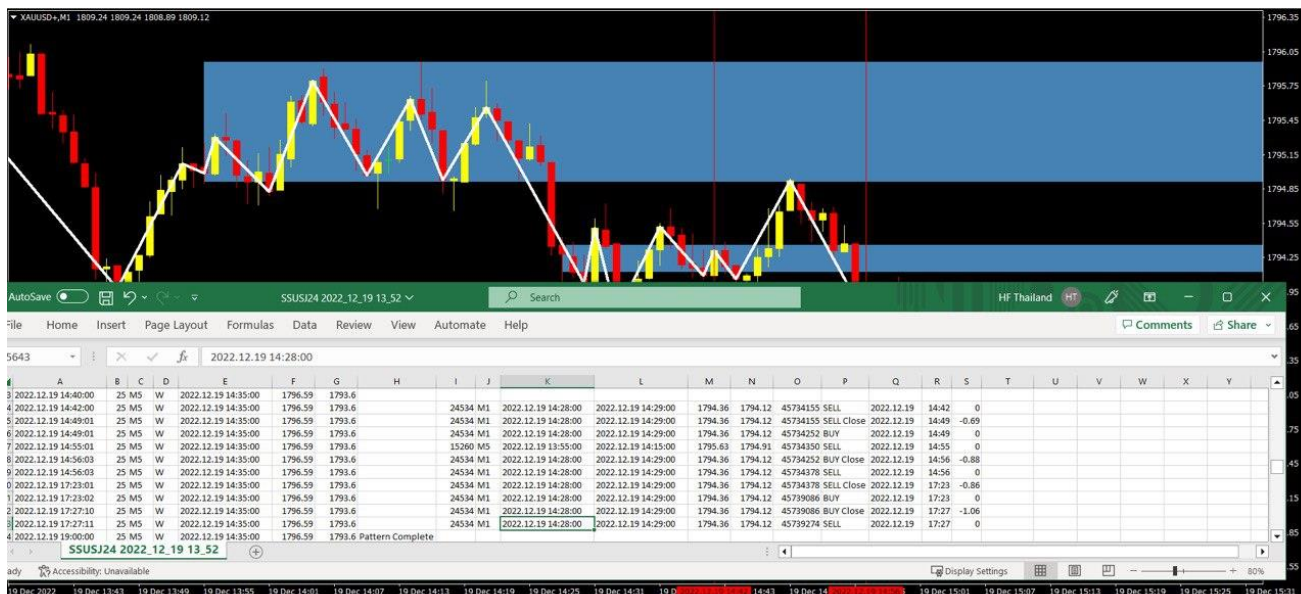
Martingale multiplier  
Max Martingale Lotsize



5. In the scenario that the pattern has more than 3 trades (6 trades executed),  
 When the 1st trade SELL from the PB Zone executes, No Martingale applied.  
 When the 1st trade switches to BUY , no martingale applied. -\$1.48  
 When the 2nd trade opens SELL, (Which means there is a better PB Zone than Zone 1)  
 When the 3rd trade opens SELL, (Which means there is a better PB Zone than Zone 2)  
 When the 4th trade opens SELL, (Which means there is a better PB Zone than Zone 3)  
 Close Trade 1st, 2nd, 3rd Trade once it covers all the loss and makes profit \$1  
 and Leave the highest trade (Best Zone) Trade 4 opened.  
 Upon Pattern completion, (Method 1: Set SL 30 points, Method 2: Close once pattern completed)

When the 5th trade opens SELL, (Which means there is a better PB Zone than Zone 4)  
 Close Trade 4th Once trade makes Profit \$1

When the 1st trade switches again to SELL, apply martingale if trade still opened.  
 When the 6th trade opens SELL, (Which means there is a better PB Zone than Zone 5)  
 Cloth Trade 5th once trade makes Profit \$1  
 and Leave the highest trade (Best Zone) Trade 6 opened.  
 Upon Pattern completion, (Method 1: Set SL 30 points, Method 2: Close once pattern completed)



2. In the scenario that the pattern has more than 1 trade (2 trades executed),  
 When the 1st trade SELL from the PB Zone executes, No Martingale applied. -\$0.69  
 When the 1st trade switches BUY, no martingale applied. -\$0.88  
 When the 2nd Trade opens (Which means there is a better PB Zone than the one detected)  
 When the 1st trade switches back to SELL, Apply multiplication -\$0.86  
 When the 1st trade switches back to BUY, Apply Multiplication - \$1.06  
 When the 1st Trade switches back to SELL, Apply Multiplication and Close 1st Trade once profit is at \$1 after breakeven (-\$3.49 + Profit \$1), and leave 2nd Trade running until complete.  
 Upon Pattern completion, (Method 1: Set SL 30 points, Method 2: Close once pattern completed)