UNISWAP V4 SWAP REBATE HOOK

What The Hook?

A tool that looks for profit created when two trading pools show different prices. If it safely captures that profit, it shares the money with the trader and the people supplying the pools.

- TRADER GETS MONEY BACK
- MORE VALUE FOR POOL PROVIDERS
- REVENUE FOR THE WTH SYSTEM

THE SIMPLE IDEA

Keep more of the value created by each trade.

How the hook works.

A guide to what the hook does, how to connect a pool, where the profit comes from and who gets paid.

What it does

Checks whether a trade created a profitable price difference between approved pools. If it did, the hook tries to close the gap and keep the profit.

START → 03

How to use it

Create a Uniswap v4 pool with the WTH hook attached. The preset setup handles the hook and tick spacing, leaving price and liquidity to the user.

SETUP GUIDE → 06

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Quick terms

Pool: tokens available for trading. LP: a person who supplies tokens to a pool. Hook: custom code attached to a v4 pool.

Today, outside bots often keep the profit.

Price correction is useful, but the money made from that correction often leaves the traders and pools that created the opportunity.

WHAT USUALLY HAPPENS

A user makes a trade

↓

One pool price moves

↓

A bot finds the price gap

↓

The bot keeps the profit

WHAT WTH CHANGES

A user makes a trade

↓

The hook checks approved pools

↓

The hook captures real profit

↓

Trader and LPs share it

Why the hook is useful

It gives the price-correction profit a chance to stay with the trader, the pool providers and the protocol instead of being taken entirely by an outside searcher.

The basic safety rule

The hook should only act when the profit is expected to be larger than pool fees, network costs and the effect of moving the price.

Bottom line: same market correction, but more of the profit can be returned to the people and pools involved.

What happens when someone trades WTH.

The hook checks whether the WTH trade created a profitable price difference between the approved WTH pools.

User
buys or sells WTH

→

Pool price
moves after the trade

→

Hook
checks the other pool

→

Profit
is captured and shared

BUY

40%	60%
TRADER	POOL PROVIDERS

The trader receives 40% of captured profit. Liquidity providers receive 60%.

SELL

10%	90%
TRADER	POOL PROVIDERS

The trader receives 10% of captured profit. Liquidity providers receive 90%.

Why traders may care

A normal trade can create a price gap. With the hook, the trader who created that opportunity may receive part of the captured profit back as a rebate.

Why pool providers may care

Liquidity providers are the people who supply tokens to the pools. They receive the larger share of any positive profit the hook captures.

No captured profit = no payout.

The percentages only apply after the hook completes the correction and keeps a positive amount after costs.

The WTH Token shows the hook working.

It is the native example of the system, receives the WTH protocol share when other tokens use the hook and gives the project a visible asset for integrations and promotion.

WHEN ANOTHER TOKEN USES THE HOOK

Part of the captured profit goes to the WTH Protocol Pools.

The hook first captures positive profit. That profit is then shared between the trader, the other token's pools and the two WTH Protocol Pools.

Other token uses the hook → **Profit** is captured → **WTH pools** receive a share

BUY **18%** of captured profit

SELL **27%** of captured profit

01 SHOW THE PRODUCT

A live example

WTH pools make the hook easier to demonstrate with a real token and real pool flow.

02 CAPTURE REVENUE

A protocol share

When another token uses the hook, the two WTH Protocol Pools receive their defined part of the captured profit.

03 BUILD VISIBILITY

A clear focal point

The token gives dashboards, integrations, demonstrations and campaigns one visible asset to point to.

Important: The 18% and 27% are shares of positive profit captured by the hook. They are not percentages of the trader's full trade amount.

Extra rules attached to a Uniswap v4 pool.

A hook is code that runs automatically around pool actions. It lets a pool do more than basic swapping and fee collection.

01 THE POOL

Trades the pair

Users swap one token for another and liquidity providers supply the tokens.

02 THE HOOK

Runs custom logic

The attached code can check information and take approved actions around a swap.

03 WTH RESULT

Checks for profit

If a price gap can be closed for positive profit after costs, that profit can be shared.

WHAT CUSTOM POOL LOGIC MEANS

The pool can follow extra instructions.

Uniswap v4 hooks can run at selected points such as before or after a swap, when liquidity changes or when a pool is created. The WTH hook uses this feature to check connected pools, capture positive price-gap profit and split it automatically.

What it does not do

It does not guarantee a payout on every trade. A reward only exists when the hook completes a profitable correction after costs.

Where it can be used

A hook is attached when a new v4 pool is created. An existing v3 pool stays unchanged; a new v4 pool is created beside it.

Simple version: the pool handles trading; the hook adds the WTH rules around it.

Create a hooked pool in a few steps.

The setup link will prefill the WTH hook and tick spacing. Once the pair is selected, the user enters the starting price and liquidity.

01
Open setup
Use the preset pool-creation link.

02
Enter price
Set the pool starting price.

03
Add liquidity
Choose how much to supply.

04
Create pool
Review and confirm the transaction.

Preset setup link [ADD LINK HERE] Hook and tick spacing are preselected.

Practical ways to use it

Designed for pools looking for another source of potential LP rewards and trader rebates.

01 MAIN POOL ON V3

Keep the v3 pool

Create one or more new v4 pools with the WTH hook. The existing v3 pool does not change.

02 MAIN POOL ON V4

Add hooked v4 pools

Keep the main v4 pool and create one or more additional v4 pools with the WTH hook.

03 NEW TOKEN LAUNCH

Start with two pools

Create two pools using the same quote currency and connect them to the hook for LP rewards and trader rebates.

04 SUPPORTED QUOTES

USDG / ETH / WETH

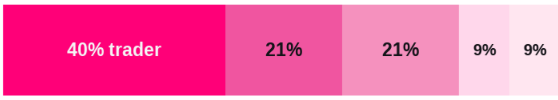
The hook supports these quote assets and works best with two or more connected pools.

Important: extra rewards come only from positive profit the hook actually captures. They are not guaranteed on every trade.

How the captured profit is shared.

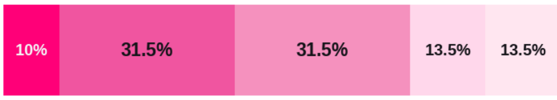
This example is for another token using the WTH hook. Every percentage below is a share of captured profit, not the full trade amount.

BUY



Trader gets 40%. The remaining 60% is split across four pools.

SELL



Trader gets 10%. The remaining 90% is split across four pools.

WHO RECEIVES IT	BUY	SELL
Trader	40.0%	10.0%
Project Pool 1	21.0%	31.5%
Project Pool 2	21.0%	31.5%
WTH Protocol Pool 1	**9.0%**	**13.5%**
WTH Protocol Pool 2	**9.0%**	**13.5%**
Total	**100%**	**100%**

WTH protocol share: the two WTH Protocol Pools receive 18% combined on buys and 27% combined on sells. This comes from positive profit made when the other token uses the hook.

Four parts keep the system controlled.

The hook separates pool approval, route checking, trade execution and payouts so each job is easier to inspect and test.

01 APPROVED POOLS

Pool list

Keeps a list of the pools and tokens the hook is allowed to use.

02 CHECK THE GAP

Route checker

Looks at a limited set of paths and estimates whether a safe profit exists.

03 MAKE THE TRADE

Executor

Runs the price-correction trade and closes all token balances in the same protected process.

04 SHARE THE MONEY

Payout ledger

Records the trader and pool shares and prevents the system from paying more than it captured.

CORE SAFEGUARDS

- Use only approved pools and routes.
- Check a limited number of paths so a swap cannot trigger an endless search.
- Pay only from completed positive profit, never from an estimate.

Why this matters: a smaller, clearly separated system is easier to test, audit and pause if a pool or route becomes unsafe.