

StonkBrokers Uniswap v4 hooks

Fix notice for Hookr

HK-22 partial fill guard is now live on every hook: Battle, Strategy, Fractional 404, Smart LP and the Pair Token launcher were redeployed on Robinhood Chain on 2026-10-13.



In partnership with Hookr (hookr.fun) for Uniswap v4 hook launches

Date: 2026-10-13

Repository commit: 810c9aaf668a

Chain: Robinhood Chain (4663), Uniswap v4 PoolManager 0x8366a39CC670B4001A1121B8F6A443A643e40951

Tests on the shipped bytecode: 155 non fork, 7 fork, 0 failed

Verification of record: Sourcify exact_match on all 14 new contracts

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What Hookr has to change

Replace every StonkBrokers hook and controller address with the new generation in section 4 and reload the ABIs from stonkbrosers.io/integration/hooks/. Taxed buys that cannot fill their whole specified amount now revert with PartialFill(filled, expected) on every surface, so buy flows must never pass a price limit. The partner fee leg is already pointed at the Hookr Safe on every new controller; nothing to sign on your side.

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1. Summary

While double checking the hooks against the Hookr review items we confirmed one real issue in the shared StonkFeeHook. It charged the buy fee, and on Battle reported the side's inflow, on the amount the trader specified rather than the amount the pool actually filled. A price limited exact input buy that filled almost nothing still paid the full fee, and on Battle still counted the full specified amount toward the epoch.

Every StonkFeeHook based surface had zero launches, so the fix shipped as a clean redeploy of all five stacks with the fixed hook. Previous generations are archived and must not be referenced. The integration shape (ABIs, flows, fee split, partner leg, controller interfaces) is unchanged apart from the addresses, one new custom error and the buy flow rule in section 7.

2. What was wrong

Uniswap v4 exact input swaps take the specified amount as the trader's intent, but the pool only consumes what the price limit and the available liquidity allow. The old hook did its accounting in beforeSwap on params.amountSpecified and never compared it with the realized BalanceDelta in afterSwap.

- Reproduced: a 50 ETH buy with a price limit one tick from spot filled about 0.0005 ETH, paid about 1.5 ETH of fee and credited its Battle side with 50 ETH.
- Battle: a wallet could win the 24 hour epoch for the cost of the fee alone.
- Strategy, Fractional 404, Smart LP, Pair Token: no game outcome, but the trader who set the limit was overcharged. Fixed on these too.

Sells were already correct: fee and outflow are measured on the realized quote out.

3. What changed in the hook

afterSwap now compares the realized quote delta with the amount skimmed in beforeSwap. A buy must consume exactly specified minus fee, otherwise the swap reverts and nothing is charged or counted.

```
error PartialFill(uint256 filled, uint256 expected);

// afterSwap, buy branch (exact input, quote in)
quoteIn = uint256(-params.amountSpecified);
fee = (quoteIn * feeBps) / BPS;
int128 qIn = t.quoteIs0 ? delta.amount0() : delta.amount1();
uint256 consumed = qIn < 0 ? uint256(uint128(-qIn)) : 0;
if (consumed != quoteIn - fee) revert PartialFill(consumed, quoteIn - fee);
```

Why a revert and not a refund: the fee is skimmed from the specified side through toBeforeSwapDelta, and afterSwap may only return a delta in the unspecified currency, so an over skimmed fee cannot be handed back inside the same swap. Controller swaps bypass the fee path as before, and controller liquidity is full range, so a normal buy without a price limit always fills completely. The Smart LP hook applies the same guard to its own dynamic fee path.

4. New addresses (all five surfaces)

Battle Token Hook

Contract	New (live)	Previous (archived, do not use)
BattleVault	0x1BaDdAB75dd5223C2A619AA9c88BD211aaC5D304	0xc849c3683be5006c8E5B8eec4F3f60A9a855D6c8
StonkFeeHook (Battle)	0x6ced3a0048F9f42836a90ee47FFe64645B0bAacc	0x9afEd91316E1da0334668Dedd3a1dac1d45c6aCc

Strategy Token Hook

Contract	New (live)	Previous (archived, do not use)
StrategyLauncher	0x9f6821af226D85234DED5F0f024A8A2B4Fa6d023	0x9422e4Eb52967f098B3e4eD73Ce169df7F4b58C0
StonkFeeHook (Strategy)	0x242FA7F53383a0e77Dd2A7778dC9Da794f042AcC	0x9eDbDF63d45304F5dE8D5B50ca635583cc70eacc

Fractional 404 Hook

Contract	New (live)	Previous (archived, do not use)
FractionalLauncher	0xCD44629152c9a7CAc2cD68bb25A2293022F3183D	0x5C123AB170685d732D56c6F53C90A2f7F6112e97
StonkFeeHook (Fractional)	0x8A6c104d8bc04E058Ca08282E605D42a84D6aaCc	0x2F732852B94474Ed2FC61459601b563ed732Eacc
FractionalDeployer	0x3361426DEea55e88cb04cCA5cFeB46D99eB36dff	0xc1a3995F84eC0857314E704e44b4f1BA793D041F
ERC6551Registry	0x3Df336317B73e0ce417E03488abb2B79cEe2B9E4	0x56c413f46f6d960b1344A68041b78909a1C25232
Fractional6551Account impl	0xb9D00C31F479B892Ae7F8F500dbf3FF3E41acC26	0x3C44f73A3b2D58D54f25d5d908Db8bEF6873c9Df

Smart LP Hook

Contract	New (live)	Previous (archived, do not use)
SmartLpHook	0x47137a7733E2B4DBD0e25416d5D5B29C8A1Da0c4	0xC4DBA21eE5e4D3fD890a34Ca05Ece35EE74760C4
SmartLpHookLens	0x29Eaf335fed9270ba98BD5dd99519bb3af4C3F00	0x0D88C3217bE38C6b151C815Ca9C168ABE32A559E
sINVDA ladder vault	0x3Ddf0412398D806AF1069B0EA29242b6BD22fd2B	0x0B1fFbCf7836c806c17F704ea1c568f046eC8eCC

NVDA/USDG pool id (new): 0x3b0a3db8c4d25fd428792aa6718796a3b87945e2b1d8b282500a753155a16e8b. A new hook address always means a new PoolKey; the old pool 0xe6fb12304c128767322360c39810460497c25ba14aada3d2a9630554ae5e24d is retired. Booster leg now pays Clock In 3.0 0xB673276C46dE1428EacC15Ed6eceF480259D8566.

Pair Token

Contract	New (live)	Previous (archived, do not use)
PairTokenLauncher	0x1cEE10c87D261912A833E000f7e7295DC9E813E7	0x7eA5d346B983a533A521828c8157804BFD12856B
StonkFeeHook (launcher)	0x261a19357c66349BccEC55711F81612C0030aaCC	0xA86ee78fcB5e1Eb10e9bB5B4bD165D4a3929eACC

Pair Token contract (unchanged)	Address
PairTokenFactory	0x282c4815F30abc1D0A8eB810c7309140d35a5B38
PairTokenFeeManager	0x18AdF7be1d23022FcCf286D3d342d92Ecb3F9195
PairToken implementation	0x56C8c249d4c021e93635b120aC68A9a36eb01753

The hookless factory, fee manager and clone implementation did not change. The factory now allows only the new launcher as creator; the old launcher is revoked. No pair clone exists on the live factory yet (allPairsLength is 0).

5. Transactions

All on Robinhood Chain. Open any hash at <https://brokertools.info/tx/<hash>>.

Battle

Step	Tx hash
deployHook	0x7e2fd1aed2c736926f57cfa4b57e259952127237cec923430f24afbe50322626
deployVault	0xa29b2376161434ad9b5a8fa0291e4565b312b52125a9fff20a1d0f766e21aa7a
setHook	0x0f51928ec187cb7eca3aea533396947773966f5e588b0c743ed97e1bbdd3ac37
setPartner	0x90041d36e05753554aea77565efd8694da3f8bc8eef75bb7ba5ef77b8b6cb7fb
transferOwnership	0x0a0e99039276d708e717ae743de5f9aad405685fa20da0fa214bc612120dafe0

Strategy

Step	Tx hash
deployHook	0x37009ed4271af48bbd11d5324e28abd382480234b9f46023da8f1eb7e5f40948
deployLauncher	0x51a1a346777d41bcafe77e9314f97a9ba87c05894e160e7521797a97d18f94cc
setHook	0x46126fd74a31f019708e17e9354abe1305f8da54865fa0b6746f4317776c9217
setMinExecuteQuote	0x7b990c3ff2f44cd1f5bb9ea6882fc549a631e9165c87266fb19c5a98b0bd4e03
setPartner	0x5f97ecb9e5ee8496cebc86eab3c1ac34f8db1383868542f5894ac360132d7f85
transferOwnership	0x24727daca7f9dec39ebcaeb1300131e36d473e48be82d4f94dfc7573581f9b49

Fractional 404

Step	Tx hash
deployAccountImpl	0x8667bf93970db47e9c46d519ddcd53360f29d5960077acb54c7fa5851189e785
deployCodeDeployer	0x39632e4ba38d9636afb65f2e72c419cd855fa687b5f74fa6ef7d5e53fc4234b3
deployHook	0xab427235966b93ae7ece686732805b2dfc3847bfa4afeeca6711c856aa518378
deployLauncher	0x1c40dade4ec01cadac4f0367edc95144c819bf4774958145d15d741b9c908fde
deployRegistry	0x145a237d6e0d57037a631a171378d5f90b48d1fb3395c0eb442f37a9d71851a3
setHook	0x80eb63b617cb2915083a59428ce10c7a1f55ad23b2e3c6d2f8d3ab417b280544
setLauncherOnCodeDeployer	0x8690289f9920084d0c4108b2dd75c64316622dc91861029a1982893ac011ea82
setPartner	0xe056f2699bc0553d33063c750ee64bdccba940270da2d982ff8abefed8dad734
transferOwnership	0x1540eb89f801fdb6f492c07d27d6708ecb996a39f5deda700ba1732c634db7e6

Smart LP

Step	Tx hash
deployHook	0xce86fb27d19306508bf6780ae8322e398b89c75876c6cbbb79ffe51815403d8d
deployLadderNvda	0x27759a034d1284a84754771c76c34cf4f5458101952719146a6307fd0d527261
deployLens	0x0cae5006fcd96a54d70c89c7f9f94773f2d3254b51d6dc013fe9215132795f5d
initializePool	0xa60d80e699ecea60bc48a332243e290956ead4b44f28eb2aeadd086b1730dc5c0
registerPool	0x4062aa112c6bc75b18a64bbe09d82e1cc5fd921f859f6f6052099466ee873639
setPartner	0x288f9f38b76baa6e5b2f466d7793dd4b56247c2d6ad59e26e6b7f3d96dd45f96
transferOwnership	0xc3e8ea5a00abe6499ed7d8da2ec3d04104e3302c6276899701a1b9e63ca5e52f

Pair Token launcher

Step	Tx hash
deployHook	0xc54c1e03d28f7fb2044d69f8da792b98d9a5eb501f42b0cec2add138c66dc789
deployLauncher	0x13f9f198f5f86536e746c413e167bbd05dd86a67b32be0dd819c9076727bb004

Step	Tx hash
factorySetAllowedCreatorNew	0x5a0f19481a89283425dd2267c0bf9627392624d5be67628b2ce9da3fa04f2c87
factorySetAllowedCreatorOldRevoked	0x102a390482b4f609a2d78218b4d8e677c0121bf8ebc8127f04bc337ec974f889
setHook	0x7f8ab136a87f1273c14171ddeb6251fe2680dca94e5a91ca8821129da0c7200a
setPartner	0xfcdfb0dd6d7970f548499372b3f707603a029dfe1ca6f2ef7bd7c48efd061b1f
transferOwnership	0xac552704022459f07901cf201a8aed47e8a7164ff1c73f002c632356ab696346

6. Hookr checklist

1. Replace every address in section 4 in the StonkBrokers hook list, launch modals, pool discovery and any cached index.
2. Pools created through a controller carry its new hook address in the PoolKey. Rebuild PoolKeys from the new hook addresses.
3. Reload the ABIs from stonkbros.io/integration/hooks/. The only ABI delta is the new PartialFill(uint256,uint256) error on StonkFeeHook (and the same guard on SmartLpHook).
4. Map PartialFill to a plain message in every swap UI (section 7).
5. Drop the archived generations. They have zero launches, zero pools and zero accrued partner fees.
6. No Hookr signature needed: partnerTo is already the Hookr Safe at 5000 bps on every new controller.

7. Front end guidance for taxed buys

Never pass a price limit on a taxed buy

Use the sqrt bounds as the limit (MIN_SQRT_PRICE + 1 for zeroForOne, MAX_SQRT_PRICE - 1 otherwise) and bound the trade with the router's minimum amount out instead. A limit that stops the swap early reverts with PartialFill(filled, expected) rather than overcharging the trader.

- Exact input buys always fill completely against full range controller liquidity when no price limit binds.
- Sells are unchanged; partial sells keep working.
- Simulate before signing. On PartialFill show: 'This buy cannot fill at the chosen limit, remove the price limit and set a minimum received instead'.
- Battle epoch settlement and sunrise snipe decay are untouched; net inflow now reflects quote that really entered the pool.

8. Ownership, partner leg and what stays the same

Setting (every new controller)	Value
Protocol leg	1000 bps to 0xb668382cF44038a3E8140E789060F6A809787CDa
Partner leg (Hookr Safe)	5000 bps of the protocol leg to 0x8Fdfaa25e2E4dDa297F301ea06458f22186D6bE9
Owner today	0xD4aF10Bc56b08f8fc2990a3ADeeD4b757ae6A26C
Pending owner	0x6D6981459be6EB09C778d98527bCCc1a235bbb26 (StonkBrokers company Safe)

Ownership handover to the StonkBrokers company Safe is a two step transfer; the Safe accepts on its side. It changes nothing for Hookr. Fee splits, launch flows, partner accrual and the StonkBroker RulesLaunch preset on Hookr's own stack are unchanged.

9. Proofs and verification

- Regression tests test_hk22_partialFillBuyReverts and test_hk22_partialFillSellStillWorks pin the guard.
- Full non fork suite 155 passed, 0 failed, plus 7 fork tests against the live PoolManager. All contracts under EIP-170.
- Sourcify exact_match on all 14 new contracts: Battle vault + hook, Strategy launcher + hook, Fractional launcher + hook + deployer + registry + account impl, Smart LP hook + lens + ladder, Pair Token launcher + hook.
- Sourcify forwarded every verification to Etherscan (RobinScan). RobinScan status cannot be confirmed from our side without an Etherscan API key; Sourcify exact_match is the verification of record.
- Deploy state: hooks/deployments/<stack>-hook.4663.json; ledgers: contracts/hooks/2026-10-13-battle-partial-fill-redeploy.json and contracts/hooks/2026-10-13-all-hooks-partial-fill-redeploy.json; audit: Hashlock Certified Audit, StonkBroker Hooks, finding HK-22.