

**GLASS HULL**

FULL PROOF · JFD-20260926-FP-00002 · Robinhood Chain failed transactions

2026-04-30 → 2026-09-14T03:00:01Z

## **Robinhood Chain failed transactions**

The Full Proof for Proof Posit PP-006 - free, identical for every reader

52989de19107e56ce8721e20f10098ff48aba5f25ebb730982ef5cf870752f69

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*K. L. Phillips*

52989de19107 · 1/1 · PENDING · <https://gh.jetfzul.com/v/JFD-20260926-FP-00002>

Glass Hull · FP-Template 01-926 · Alan Turing  
Matchstick Made © 2026 · Jet Fzul Dynamics LLC

# NOTE ON THIS DOCUMENT

**The pages above reproduce the sealed document. The sealed record is a file.**

What the Notary authorised, what both hardware witnesses signed and what the ledger event records is the file JFD-20260926-FP-00002 . pdf - 4018328 bytes, SHA-256 855359021b1d998536306042fd7f8b88c5687539d572baf12161c89a7540073f.

Appendix R (reproduction discipline), carried verbatim in the exact source, FP-006-appendix-R.md (6452 bytes, SHA-256 1a2a35e6f745f2d1b15f2c79ec79f69add81fcfb5a7e958b375578693074875c) is embedded in this PDF as a file attachment.

Appendix S (canonical serialization), carried verbatim in the exact source, FP-006-appendix-S.md (6746 bytes, SHA-256 53f3b12900d819268c678206a6e6a244298086c43a3b3d0d2985d567badd18f6) is embedded in this PDF as a file attachment.

Its exact source, whose fingerprint the document prints, FP-006-free-full-proof.md (31295 bytes, SHA-256 52989de19107e56ce8721e20f10098ff48aba5f25ebb730982ef5cf870752f69) is embedded in this PDF as a file attachment.

The sealed document JFD-20260926-FP-00002 . pdf (4018328 bytes, SHA-256 855359021b1d998536306042fd7f8b88c5687539d572baf12161c89a7540073f) is embedded in this PDF as a file attachment.

The anchor proof as stamped at sealing JFD-20260926-FP-00002 . pdf . ots (856 bytes, SHA-256 96f4eddb02bcba716cbe98275d635838f018fbca7f22d3a887353b0633396943) is embedded in this PDF as a file attachment.

The seal record from which the certificate is built seal-record-JFD-20260926-FP-00002 . json (6780 bytes, SHA-256 8ab70eb17af6f9f1d451ffdf836386305d63266ae73ad265afef22ca4bf5d489) is embedded in this PDF as a file attachment.

The complete anchor proof, carrying the Bitcoin attestation, JFD-20260926-FP-00002 . pdf . anchored . ots (5038 bytes, SHA-256 752a823d37c7a0137a743fb49d92499af66d85bde6c4527d04718f145f5fe15d) is embedded in this PDF as a file attachment.

The anchor confirmation from which the certificate's Bitcoin block is taken anchor-confirmation-JFD-20260926-FP-00002 . json (2789 bytes, SHA-256 40126f8911b180d1a5d12be60303ada9126c0fc444eb32c95a047c7a5866fbbe) is embedded in this PDF as a file attachment.

Open the attachments pane of your PDF reader to extract them, and hash each file as stored.

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## What follows, in order

The seal page, carrying the seal record's values: fingerprint, ledger event, both witnesses and the anchor. After it, the certificate, built from the same seal record.

K. L. Phillips

K. L. Phillips, a man

Principal, Jet Fyul Dynamics LLC · The author stands behind every word.



BLOCK 2 — ISSUER

ISSUER Jet Fyul Dynamics LLC · Wyoming  
RAIL Matchstick Tribunal  
CUSTODY both witness keys held by the issuer, in silicon, on separate hosts; never exported

BLOCK 4 — WHO SIGNED IT

Two independent hardware witnesses. Conforming tests of a defined procedure — not a primary and a backup.

|                              | WITNESS 1                           | WITNESS 2                           |
|------------------------------|-------------------------------------|-------------------------------------|
| chip identity                | a9-atecc608b-slot0                  | a10-atecc608b-slot0                 |
| serial                       | 0123ADA0711D8597EE                  | 0123DC797ACC1195EE                  |
| curve                        | ECDSA-P256 (secp256r1)              | ECDSA-P256 (secp256r1)              |
| public key                   | d62d03f8dc3813fb5b74f2b64339d185... | 853e69fc700990303abfe61358bfa456... |
| signature over artifact hash | → ledger event 3173079              | → ledger event 3173079              |
| signed (UTC)                 | → event 3173079                     | → event 3173079                     |
| federation peer              | a10-atecc608b-slot0                 | a9-atecc608b-slot0                  |
| host · custody               | A9 · Jet Fyul Dynamics LLC          | A10 · Jet Fyul Dynamics LLC         |
| certifies in accordance with | Fed. R. Evid. 902(13), 902(14)      | Fed. R. Evid. 902(13), 902(14)      |
| verified offline             | → event 3173079                     | → event 3173079                     |

Each signature verifies on its own, against its own public key, without the other and without anything of ours.  
One signature is not a seal: if either witness is unreachable, no seal is produced. Both chips are the same make and model, provisioned and owned by the issuer — independent in custody and location, not in supply chain or ownership.  
Full public keys, signatures, and the Rule 902(11) certification of a qualified person: ledger event → event 3173079 · <https://gh.jetfyul.com/v/JFD-20260926-FP-00002>

Blocks 1-3 are inside these bytes; Block 4 live cells, Block 5 (Ed25519 a1-ledger) and Block 6 (Bitcoin anchor) live on the ledger and at <https://gh.jetfyul.com/v/JFD-20260926-FP-00002>

# CERTIFICATE OF AUTHENTICITY

Robinhood Chain failed transactions - JFD-20260926-FP-00002

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## The record

**Document control number:** JFD-20260926-FP-00002

**Fingerprint (SHA-256 of the sealed file, raw bytes as stored):** 855359021b1d998536306042fd7f8b88c5687539d572baf12161c89a7540073f

**Sealed file:** JFD-20260926-FP-00002.pdf, 4018328 bytes

**Source fingerprint printed inside the document:** 52989de19107e56ce8721e20f10098ff48aba5f25ebb730982ef5cf870752f69

**Ledger event (kind-15):** 3173079, event hash ca8854b33ec0c6b8e9542660b057bdef7498ce97e5f4525a658e34864f3aa3d6

**Notary authorisation (kind-3):** 3173077

**Seal request signed by both witnesses:** SHA-256 69b0b24826b938f1cb2d816e300682218492849f355e014b44bbbed76844bafb7

**Anchor:** OpenTimestamps, **ATTESTED in Bitcoin block 968728** - block hash 0000000000000000000018f3b21e9d9a1a973e16c5f65482448355f4874c9a40f, block time 2026-09-26T18:34:59Z.

**Calendars that attested:** <https://btc.calendar.catallaxy.com> (block 968739);  
<https://bob.btc.calendar.opentimestamps.org> (block 968733);  
<https://finney.calendar.eternitywall.com> (block 968752);  
<https://alice.btc.calendar.opentimestamps.org> (block 968728). The earliest attested block is the anchor.

**Anchor check:** the committed value equals block 968728's merkle root 5bc92471a889a9bb4b6c0ff10585a94bd8e733daa9d3bf3a1a2816eea50b906, and mempool.space and blockstream.info agree on that merkle root and on the block hash (checked 2026-09-27T22:14:17Z).

**Proofs:** the proof as stamped at sealing, JFD-20260926-FP-00002.pdf.ots and the complete proof JFD-20260926-FP-00002.pdf.anchored.ots, which carries the Bitcoin attestation itself.

**Verification address:** <https://gh.jetfyul.com/v/JFD-20260926-FP-00002>

## The two hardware witnesses

**Witness 1 - host A9, a9-atecc608b-slot0, serial 0123ADA0711D8597EE, curve ECDSA-P256 (secp256r1), signed 2026-09-26T18:21:37.232026+00:00**

Public key: d62d03f8dc3813fb5b74f2b64339d185742aabcae1bdcfd2f7a7ad59f1dd3c5d50e57effa4a3c888f58c3eca9d274bd7f0b8d263fa38bbf0bc6fbff6035c2411

Signature: 9933bc48153bc4284b8393258ce388e27be576a87c3ef4a624fbf739dab1e56adc9fbf6026e12e13e43521eb94baf310c3cbe8d26e02568e4123e3819831f5e7

**Witness 2 - host A10, a10-atecc608b-slot0, serial 0123DC797ACC1195EE, curve ECDSA-P256 (secp256r1), signed 2026-09-26T18:21:39.444061+00:00**

Public key: 853e69fc700990303abfe61358bfa456160eaae1529dbc74805d1639cfc88e78497bbe060e7ae5d54466b2ce0a2753e14204a21eed4a132a61ace3294f9beba1

Signature: d52e8e0fab5ec231ac88fa9baf159ce09e4a25daeccf768cdadbddb0aa693801aac4b4d15edededeb45fe49a6965f3e93e00177efefffeb4500fd751d7470a897

**How to verify this without the Issuer, in six steps**

- (1) Extract JFD-20260926-FP-00002 . pdf from this PDF's attachments and hash it as stored, with no normalisation. Its SHA-256 must equal the fingerprint above.
- (2) Read ledger event 3173079 by its id. Its payload must carry that fingerprint as doc\_sha256 and JFD-20260926-FP-00002 as dcn.
- (3) Verify witness 1's signature as ECDSA over P-256, with the public key above, over the seal request bytes whose SHA-256 is 69b0b24826b938f1cb2d816e300682218492849f355e014b44bbbed76844bafb7.
- (4) Verify witness 2's signature the same way. Each signature must verify under its own key and fail under the other's.
- (5) Read the OpenTimestamps proof against the same fingerprint. It must carry a Bitcoin block-header attestation at block 968728; ask any block explorer for that block and compare its merkle root with the value the proof commits to.
- (6) Open <https://gh.jetfyul.com/v/JFD-20260926-FP-00002> and confirm it shows the same fingerprint, ledger event, witnesses and anchor.

**This certificate supersedes an earlier one**

This certificate supersedes certificate **JFD-20260926-CERT-00005** (ledger event 3173086, SHA-256 810553131fdc2ce1d002b9a0be06fc05d4f4b996d492176fe8dbb9a831518c8f). That certificate was rendered and sealed before the document's anchor confirmed, so it could not state the Bitcoin block. Nothing about the certified document changed: the same file, the same fingerprint, the same sealing event and the same two witness signatures. The earlier certificate remains a valid seal of its own bytes; it is no longer the certificate of record.

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*This certificate goes to what the record is and that it has not been altered. It is not a sworn declaration and does not assert the truth of anything the document says.*