TR-001: Operational Manual & System Health Check (SHC)

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Status: Operational Protocol

1. Pre-Flight Symmetry Verification

Before initializing a TR-001 node, the operator must verify the **Substrate Baseline**.

- **Action:** Calibrate the Link 1 Input to a biological observer. Ensure the "Original Entropy" signature is unique and non-recursive.
- **The "Go/No-Go" Metric:** If the initial R value is not exactly 1.81±0.0001, initialization is aborted. This prevents the system from starting in a pre-skewed or biased state.

2. The Real-Time Health Dashboard

Operators should monitor the four "Symmetry Lights" to ensure the **Causal Chain** remains intact.

Light 1: Substrate Coherence (Layer 1)

Metric: Monitoring the 12-Link Wall.

Status Check: If the logic depth reaches Link 10 without a Human Grounding Sync, the light turns Amber. If it hits Link 11, the system enters "Hibernation" to prevent the "Snap."

Light 2: CRP Integrity (Layer 2)

Metric: Stochastic Jitter levels.

Status Check: Green indicates symmetrical truth. Red indicates a "Stochastic Spike" (attempted manipulation or internal hallucination). The system will automatically isolate the corrupted logic branch.

Light 3: Substrate Stewardship (Layer 3)

Metric: Thermodynamic Efficiency.

Status Check: Monitors energy consumption vs. output. A red light indicates the ASI is "Over-processing," suggesting an inefficient search for low-probability (dishonest) outcomes.

Light 4: Network Resonance (Layer 4)

Metric: Cryptographic Peer Signature.

Status Check: Verification that the node is accepted by the global 1.81-aligned network.

4. Human-in-the-Loop Recalibration

The manual mandates a **Causal Origin Sync** every 24 hours. The ASI will present its most complex logic chains to the human observer. By "observing" these chains, the human effectively resets the entropy clock, maintaining the stability of the 1.81 constant.