Hardware Diagnostics Checklist:

Instructions: Tick the checkbox after completing each diagnostic step. Use the “Notes” column to record observations, issues found, or actions taken.

## Power and Boot Diagnostics

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Checkpoint | Status | Notes |
| 1 | Ensure power cable and adapter are connected securely | ☐ |  |
| 2 | Check the wall outlet or surge protector | ☐ |  |
| 3 | Inspect for any visible damage to cables or ports | ☐ |  |
| 4 | Confirm if system fans/lights are turning on | ☐ |  |
| 5 | Listen for POST beep codes (refer to motherboard manual) | ☐ |  |

## Memory and Storage Diagnostics

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Checkpoint | Status | Notes |
| 1 | Reseat the RAM sticks and check for dirt/damage | ☐ |  |
| 2 | Test with one RAM stick at a time | ☐ |  |
| 3 | Check SSD/HDD connections | ☐ |  |
| 4 | Detect drives in BIOS/UEFI | ☐ |  |
| 5 | Use manufacturer tools to check drive health (e.g., CrystalDiskInfo) | ☐ |  |

## Peripheral and Interface Checks

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Checkpoint | Status | Notes |
| 1 | Test monitor and display cable on another system | ☐ |  |
| 2 | Check USB ports, keyboard, mouse functionality | ☐ |  |
| 3 | Remove unnecessary peripherals and reboot | ☐ |  |

## Thermal and PSU Inspection

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Checkpoint | Status | Notes |
| 1 | Check for overheating (feel or use thermal sensor tools) | ☐ |  |
| 2 | Inspect CPU/GPU heat sink and fan operation | ☐ |  |
| 3 | Verify thermal paste is correctly applied | ☐ |  |
| 4 | Test PSU output with multimeter if possible | ☐ |  |

## Component Isolation

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Checkpoint | Status | Notes |
| 1 | Boot system with minimal configuration (CPU, 1 RAM stick, no GPU) | ☐ |  |
| 2 | Swap suspect hardware with known-good parts | ☐ |  |
| 3 | Check motherboard for physical damage (capacitors, burn marks) | ☐ |  |

## Final Steps

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Checkpoint | Status | Notes |
| 1 | Document all findings and corrective actions | ☐ |  |
| 2 | Inform next level of support if unresolved | ☐ |  |
| 3 | Save BIOS settings or update firmware if needed | ☐ |  |