

Install Report

Order #7960 · "Customer Name"

Services: PS2 Retro GEM Install Service - PS2 Slim (SCPH-700XX, 7500X, 7700X), iFlash2PS2 Flex Kit - iFlash2PS2 Installation Service (Labor), PS2 Slim Capacitor Replacement (Labor Only)

October 13, 2026

This report details the complete inspection, installation and testing steps that were performed on your console. Please read through the report to see details about your installation.

Installation services covered in this report:

- PS2 Slim Capacitor Replacement Service
- iFlash2PS2 Installation Service
- PS2 Slim Retro GEM Installation Service

Overview of services provided:

- PS2 Slim Capacitor Replacement Service: Requires complete disassembly of the console to access the capacitors on the motherboard. All electrolytic capacitors on the motherboard will be removed using our hot air rework station, then new capacitors will be soldered to the motherboard. The capacitors are not included with this service and must be sent in with your console. This capacitor replacement service does not include replacement of polymer, ceramic or tantalum capacitors because those capacitors do not wear out and do not need to be replaced.
- iFlash2PS2 Installation Service: Requires complete disassembly of the console to access the the motherboard. Requires a flex cable to be soldered to points on the motherboard to access the IDE controller of the PS2. Requires a power board to be soldered to the console to provide power to the iFlash Solo. Does not include the iFlash Solo SD card adapter, this must be sent in with your console.
- PS2 Slim Retro GEM Installation Service: The PS2 Slim Retro GEM installation service requires complete disassembly of the console to access the motherboard to install the flex cables and wiring from the PS2 Slim Retro GEM kit. The installation also requires modifications to be made to the console's top RF shield such as cutting and removing portions of the shield for clearance purposes and drilling holes for mounting screws. This installation also requires modification of the plastic shell such as removal of internal plastic webbing for clearance purposes, or an external cutout for the HDMI port on later revision PS2 Slims 7000X and newer. The Retro GEM kit is not included with this service and must be sent in with your console.

Pre-Install Inspection

Physical condition upon arrival



**Included Items: Compatible PS2 Slim model
700XX**

Included Items: Capacitor Kit ✓

Included Items: iFlash Solo ✓

Included Items: PS2 Slim Retro GEM Kit ✓

Included Items: Notes

PS2 Slim: SCPH-70012

iFlash Solo

iFlash2PS2 Flex Kit

Retro GEM with PS2 Slim Kit

Console5 PS2 Slim Capacitor Kit

Function Test - Powers On

Yes

Function Test - Reads Controllers

Yes

Function Test - Reads Memory Cards

Yes

Function Test - Reads Discs

Yes

Inspection Notes

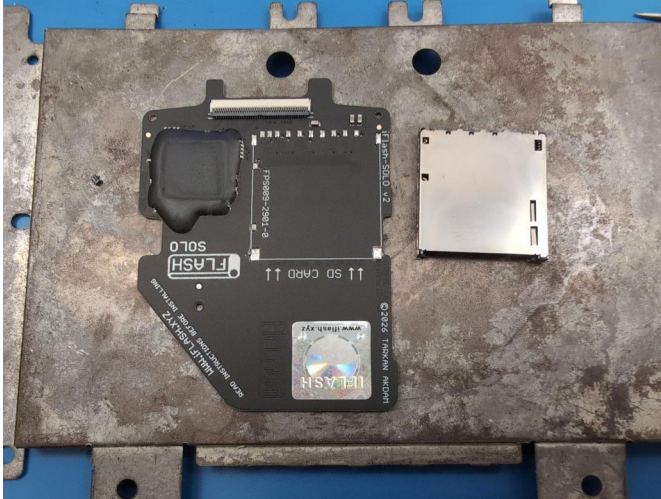
Console arrived in good condition. No signs of damage in shipping. Reads both retail and burned freedvdbboot discs.

Install Procedure - iFlash Solo Prep

Before installation the iFlash Solo's SD card slot must be removed so the SD card flex cable can be soldered in place.

Remove SD Card Slot ✓

iFlash Solo Prep Photos



Install Procedure - Disassembly

Disassembly - Remove External Screws (6) ✓

Disassembly - Remove Internal Screws (1, Controller Port) ✓

Disassembly - Remove Internal Screws (4, Bottom RF Shield) ✓

Disassembly - Remove Internal Screws (4, Optical Drive Sled) ✓

Disassembly - Remove Internal Screws (1, Top RF Shield) ✓

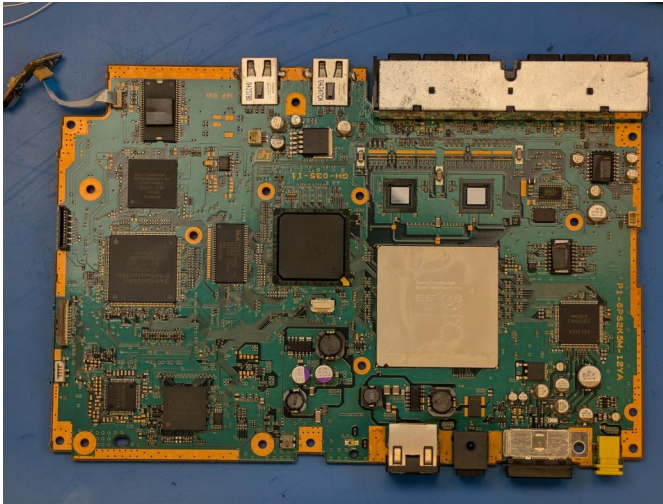
Disassembly - Disconnect Optical Drive Flex Cables ✓

Disassembly - Disconnect Battery Cable ✓

Disassembly - Disconnect Fan Cable ✓

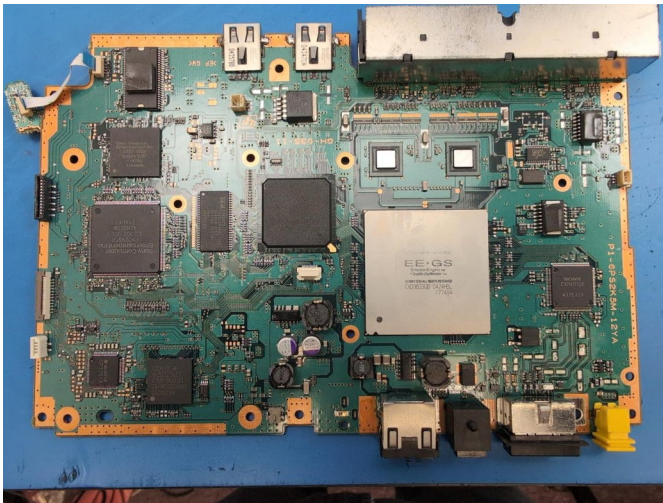
Install Procedure - Replace Capacitors

Stock Capacitor Reference Photos



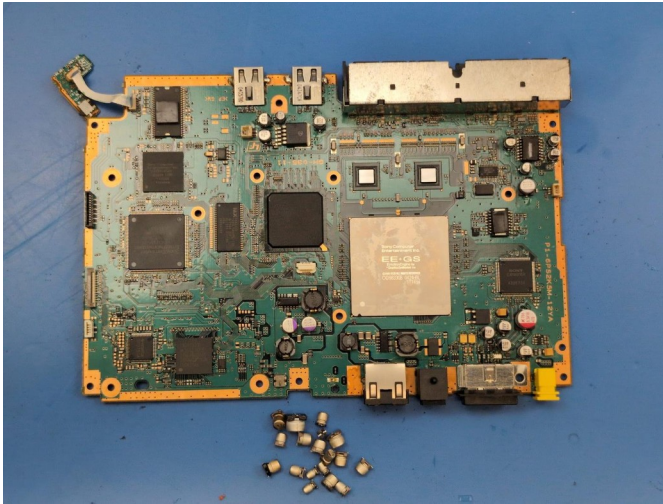
Remove All Electrolytic Capacitors From Motherboard ✓

Capacitor Removal Photos



Install New Capacitors ✓

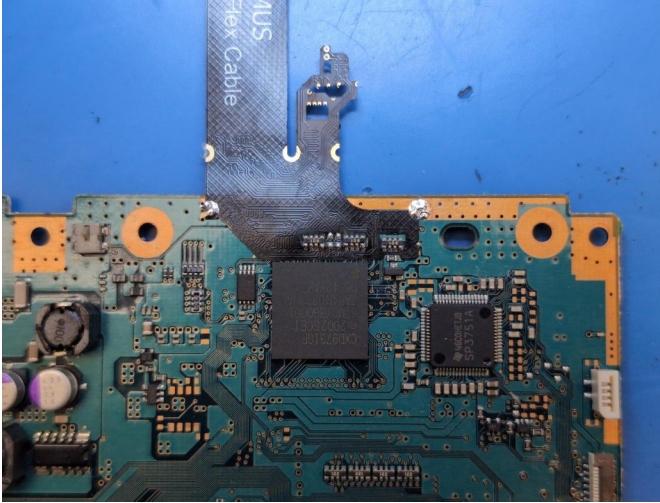
New Capacitor Install Photos



Install Procedure - Flex Install

Install iFlash2PS2 Main Flex ✓

Main Flex Install Photos



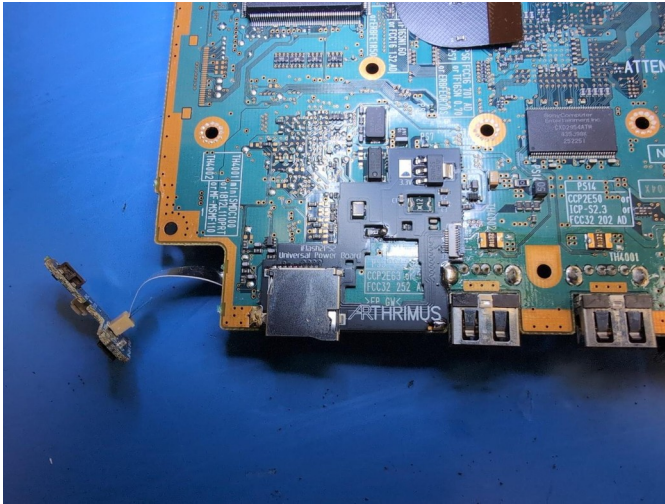
Install iFlash2PS2 SD Card Flex ✓

SD Card Flex Install Photos



Install iFlash2PS2 Power Board ✓

Power Board Install Photos



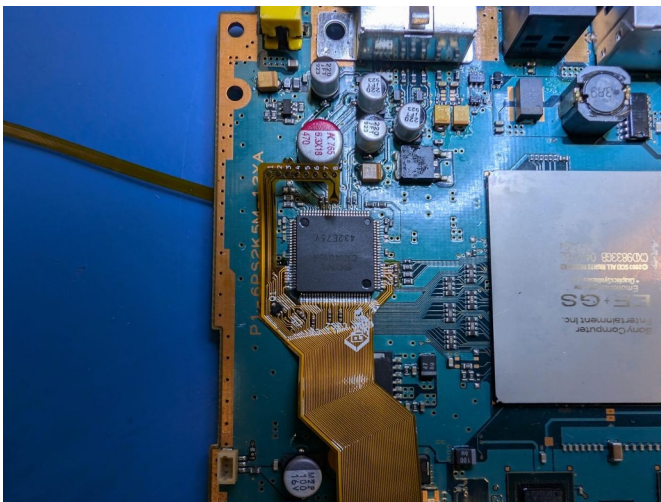
Install Procedure - Retro GEM Flex Install

Install Retro GEM Main Flex ✓

Install GEM Controller Flex ✓

Install GEM Reset Wire ✓

GEM Flex Install Photos



Install Procedure - Retro GEM PCB Mounting

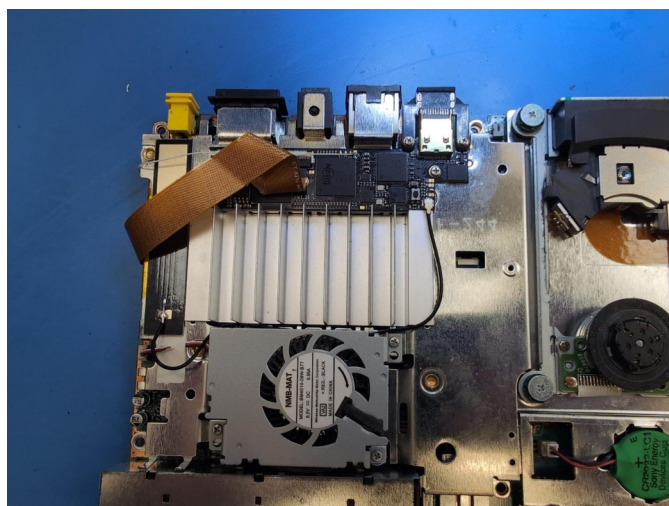
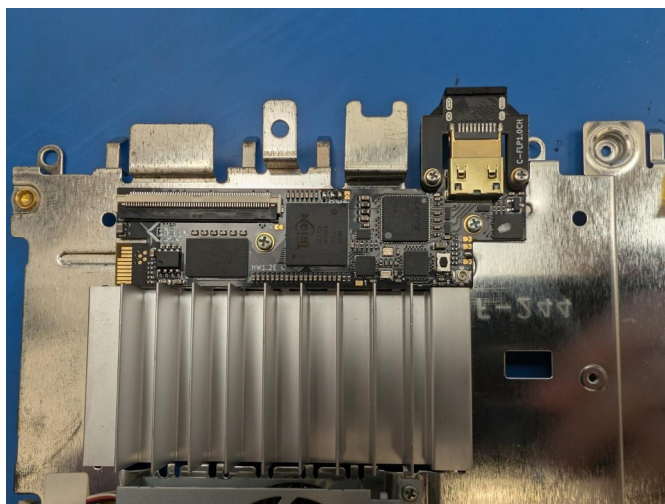
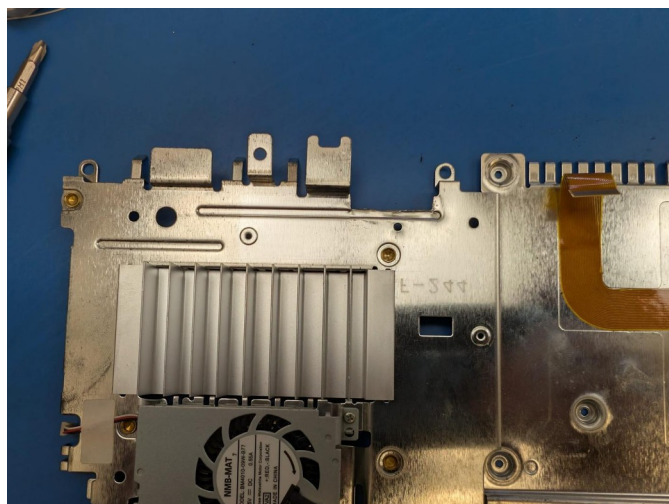
Mount GEM PCB ✓

Set GEM Jumpers ✓

Install SPDIF Wire ✓

Install Wi-Fi Antenna ✓

GEM PCB mount Photos



Mid-Install Function Test

At this point in the installation your motherboard is in a state where we can do a basic test of it's functionality with the newly installed parts before we fully reassemble the console for extended testing.

To test the new capacitors I power the console on and make sure that video and audio output, controllers and other basic functions remain fully functional after the capacitor replacement.

Capacitor Test OK ✓

To test the iFlash2PS2 Kit I load HDD Tester V1.1 on your PS2 with a test SD card installed. I run a Sequential Raw Read test at all speeds from MDMA 0 to UDMA 5. This test will show the raw transfer speed in each mode, as well as report any errors. If your console passes this test then I proceed to the reassembly steps before doing more extensive testing.

SD Card Detected ✓

SD Card IDE Test Passed ✓

SD Card IDE Test Results



To test the Retro GEM I connect the Retro GEM HDMI output to a monitor and check for clean artifact free HDM I output. I run the diagnostic self test in the Retro GEM menu, and I test SPDIF audio.

HDMI Output ✓

Retro GEM Debug-Self Test

Pass

HDMI Test Photos



Mid Install Function Test Notes

Retro GEM was defective. It was from a batch of Retro GEM boards that had two capacitors swapped from the factory which prevented the Retro GEM from booting. I repaired the Retro GEM PCB by swapping the capacitors back to the correct position. The Retro GEM boots and works reliably after the capacitor swap.

Install Procedure - Reassembly

Reassembly - Reconnect Fan Cable ✓

Reassembly - Reconnect Battery Cable ✓

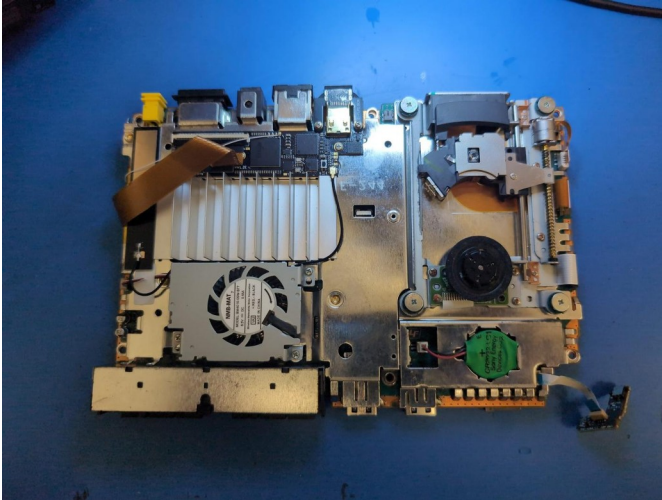
Reassembly - Reconnect Optical Drive Flex Cables ✓

Reassembly - Install Internal Screws (1, Top RF Shield) ✓

Reassembly - Install Internal Screws (4, Optical Drive Sled) ✓

Reassembly - Install Internal Screws (4, Bottom RF Shield) ✓

Reassembled Motherboard Photos



Reassembly - Install Internal Screws (1, Controller Port) ✓

Reassembly - Install External Screws (6) ✓

Post-Install Function Test

At this point assembly is complete. I now performed additional testing of your console's basic functions, verifying that nothing was broken during the install process.

Function Test - Powers On

Yes

Function Test - Reads Controllers

Yes

Function Test - Reads Memory Cards

Yes

Function Test - Reads Discs

Yes

Extended Capacitor Testing

The extended stability test is a 30 minute test running a real game.

30 Minutes Gameplay/Cutscenes - Metal Gear Solid 3

Pass

SD Card Testing - Cold Boot

Cold boot testing means that the console is cold, and has not been running for an extended period of time. This stage of testing confirms SD card detection across multiple brands and capacities of SD card.

PNY Pro Elite 1TB

Pass

Lexar Play 1TB

Pass

SanDisk Ultra 1TB

Pass

TeamGroup Pro+ 1TB

Pass

SanDisk Ultra 1.5TB

Pass

SD Card Testing - Warm Boot

Warm boot testing means that the console is warm, and has already been running for an extended period of time. This stage of testing confirms SD card detection across multiple brands and capacities of SD card once your console has warmed up. Some consoles, specifically those with GH-032 motherboard revisions, have trouble detecting SD cards when the console is already hot from an extended session of gameplay. This test procedure is meant to determine if your console is affected.

PNY Pro Elite 1TB

Pass

Lexar Play 1TB

Pass

SanDisk Ultra 1TB

Fail

TeamGroup Pro+ 1TB

Fail

SanDisk Ultra 1.5TB

Fail

SD Card Testing - Extended Stability Test

The extended stability test is a 30 minute test running a real game from the SD card. This test confirms that your console is stable and capable of reliably reading from the SD card during extended gameplay. The game of choice is typically Metal Gear Solid 3: Subsistence. The SD card for this test is typically the PNY Pro Elite 1TB card.

30 Minutes Gameplay/Cutscenes - Metal Gear Solid 3

Pass

SD Card Testing Notes

Cold boot reliability is good. All cards were detected and could boot games. Extended stability testing passed, gameplay/cutscenes load and play as expected. Warm boot testing was mixed. Some cards were not detected after reboot with the console warmed up. The cards that were not detected during warm boot conditions are the more picky cards out of my test group. Every PS2 motherboard is a little different when it comes to warm boot behavior, but overall this is a pretty good result.

Extended HDMI Testing

The extended stability test is a 30 minute test running a real game from over HDMI

30 Minutes Gameplay/Cutscenes - Metal Gear Solid 3

Pass

Install Complete

Install Complete Photos



Install Complete Notes

A fairly typical install. The only real hiccup was the defective Retro GEM which took a fair amount of time to diagnose and find the official fix for.

This concludes your installation report. If you have any questions you can reply to the email that this report was attached to, or you can send an email directly to arthrimus@gmail.com