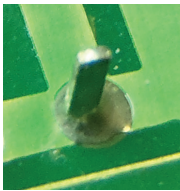# NEO•GEO AES/MVS Cartridge Slot Replacement

Below you will find the instructions on how to replace a pair of NEO•GEO cartridge slots. This instruction guide covers both AES and MVS motherboards.

On a scale of 1-10 (1 being the most difficult), this procedure ranks at a 6.
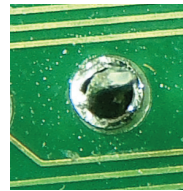
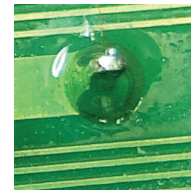**Before you begin. Please check the images below to see the four different stages that each pin can be in.**

| Factory | Half Desoldered | Fully Desoldered | Resoldered |

Step 1) **a)** Remove the screws from under your system AES system.
b) Remove the top shell.
c) Remove the screws from around the board, then remove the bottom shell.

Most MVS motherboards have exposed pcb's. For multi-slots, remove any hardware found on the system and separate the cartridge slot board.

Step 2) Flip the AES/MVS motherboard over and find the cartridge slot pins. It's recommended to re-flow (solder) the ground and power pins before you attempt to desolder them.

Step 3) Desolder each pin for both cart slots. Using the images above, take note that each pin should be fully desoldered before moving to the next pin. A fully desoldered pin shouldn't appear to be full and have a dark or black look to it. The cartridge pin should also freely move when pushed with very little force. If you find yourself with a half desoldered pin, simply resolder the pin and try again.

Step 4) When you have both rows of pins fully desoldered, the old cartridge slot should be lose and come out with very little force. If you find that the cartridge slot is still firmly in place, check each pin and confirm they are all fully desoldered.

Step 5) Once both slots have been removed, replace them with the new set provided. It's recommended to set one slot at a time and solder one pin on each end to prevent the slot from moving. Flip the board over to confirm the slot is fully inserted and sitting flat on the motherboard.

Step 6) Solder all 100 (AES) or 120 (MVS) pins for both cartridge slots. Use isopropyl alcohol after to clean any residue left from your solder.

Step 7) Reverse Step 1 to put your system back together.