

PERFECT SOLUTION II KIT

INSTALLATION INSTRUCTIONS

This is the totally redesigned PERFECT SOLUTION KIT version 2. It was redesigned to easily accommodate any combination and vintage of games and kits.

The kit contains the PERFECT SOLUTION Switching Board along with 2 JAMMA interface boards, 2 sets of interface harnesses and some auxiliary harnesses.

Use of the JAMMA boards is only required if you are using an older JAMMA cabinet and one or two kits with JAMMA interface boards. This also applies to the use of an early style GT Green or Red style game board as one of the components.

On the left and right sides of the SWITCHER board are the connectors for each switched game. The J2 side is typically used to connect to the existing game and the J3 side is for the added game.

If no JAMMA boards are required, simply connect the 2 groups of harnesses – 5 pin, 7 pin, 10 pin and 11 pin – to the SWITCHER board and then to each of the game I/O boards. If you are using one or both JAMMA I/O boards then the connections are the same except they are made to the JAMMA boards on the game side. The JAMMA connector is plugged into the JAMMA on the game board or game I/O board. The 4 wiring harnesses are then connected to that JAMMA interface from the SWITCHER board.

The video connections are made from the I/O boards to the SWITCHER via 2 supplied 15 pin RGB cables.

PANEL WIRING INSTRUCTIONS

Connect the game trackball to J7 of the SWITCHER board with the provided harness. Connect the individual game trackballs to the appropriate J2/J3 jacks on the SWITCHER board.

At this time mount the two provided buttons (#8) to a convenient place on the control panel by drilling two 1 inch holes.

These buttons can be mounted wherever you like. We used opposite upper corners of the control panel. Trim and insert the two appropriate button legends into the button covers.

The provided button harness (#5) is tied off into three separate groups for simplicity.

Connect the 10 pin in line connector to the open **J4 connector** on the Perfect Solution board.

Locate the group with a pair of red and black wires ending in a 4 pin MOLEX connector. That connector connects to an open jack on the front of the new Nighthawk computer.

Locate the grouping with 4 wires (red, black, white, blue). This connects to the J2 game select switch (the game that was already in the cabinet) as follows:

The Black and White wires with the .187 terminals connect directly to the micro switch of the switch assembly – **BLACK to NC, WHITE to COM**. The Blue and Red wires with .250 terminals connect to the two lamp terminals in any direction.

Locate the grouping with 3 wires (red, white, and brown). This connects to the added kit – J3 - selector switch as follows:

The White and Brown wires with the .187 terminals connect directly to the micro switch – **BROWN to NO, WHITE to COM**. The Red and Brown wires with .250 terminals connect to the two lamp terminals in any order.

INSTALLATION USING EGA/CGA GAME BOARDS

We recommend using a scan converter – AT3800 \$69.99 – when installing a lower resolution game with VGA or higher resolution games. You will get much better results when both outputs are at a higher resolution.

HDMI SWITCHING

Amusement Technologies also offers an HDMI switcher that is compatible with the PERFECT SOLUTION II board. The cost is \$48.00. The HDMI switcher control line connects to J8 on the PSII board. You simply connect the HDMI cables to the J2 and J3 inputs. The output connects directly to your display. This eliminates the need for the supplied VGA cables.

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