

Instructions

Extend Card (Cross Point In)

Model No. WJ-PB85C16

Before attempting to connect or install this product, please read these instructions carefully and save this manual for future use.

Caution

Hold this board only by its edges. Otherwise components on the board may be damaged by static electricity.

■ Preface

The WJ-PB85C16 Cross Point Input Board is an optional board for expanding the cross point input capability of the System 850 Matrix Switcher.

■ Appearance

① Video Input Port (VIDEO IN, 1 - 2)

These ports accept either video signal from the VIDEO OUT port on the Camera Input Board of the Camera Control Cage (MXCONT) or from the VIDEO OUT port on the Cross Point Input Board of another Cross Point Cage (MXSW).



Pin No.	Designation	Pin No.	Designation
25	VIDEO 1	13	Ground
24	VIDEO 2	12	Ground
23	VIDEO 3	11	Ground
22	VIDEO 4	10	Ground
21	VIDEO 5	9	Ground
20	VIDEO 6	8	Ground
19	VIDEO 7	7	Ground
18	VIDEO 8	6	Ground
17	Not Used	5	Ground
16	Not Used	4	Ground
15	Not Used	3	Ground
14	Not Used	2	Ground
		1	Ground



② Video Output Port (VIDEO OUT, 1 - 2)

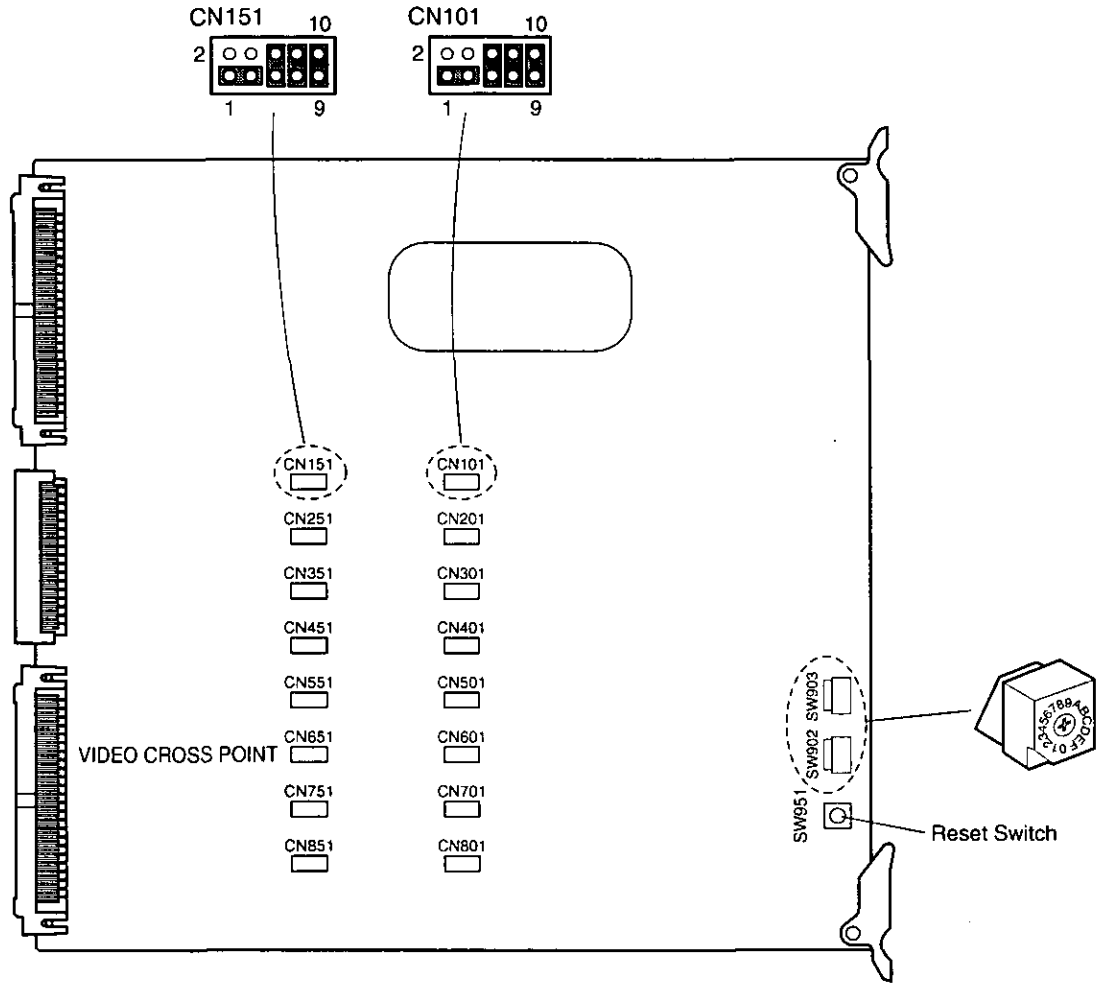
The video signal connected to the VIDEO IN port is looped through to these ports. If video output extensions are required, connect between these ports and the VIDEO IN ports on the WJ-PB85C16 Cross Point Input Board of another Cross Point Cage (MXSW) for switching camera input.



Pin No.	Designation	Pin No.	Designation
25	VIDEO 9	13	Ground
24	VIDEO 10	12	Ground
23	VIDEO 11	11	Ground
22	VIDEO 12	10	Ground
21	VIDEO 13	9	Ground
20	VIDEO 14	8	Ground
19	VIDEO 15	7	Ground
18	VIDEO 16	6	Ground
17	Not Used	5	Ground
16	Not Used	4	Ground
15	Not Used	3	Ground
14	Not Used	2	Ground
		1	Ground

Board Setting

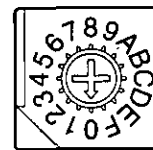
Before installing this board, the following settings should be made by qualified service personnel or system installers.



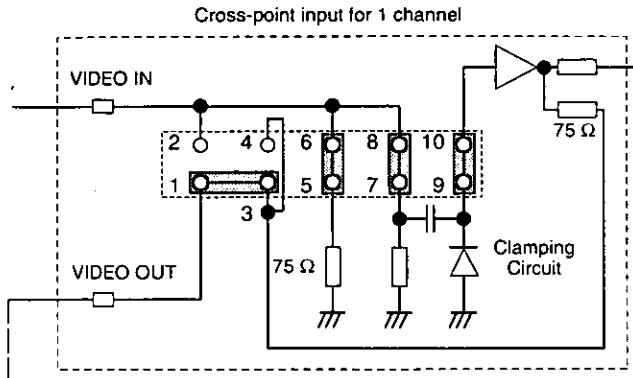
1. Set switches (SW902 and SW903) on the board to designate the Cross Point Input board number as shown in the following table.

The factory default setting is Board Number 1 (00).

Board No.	VIDEO IN/OUT	SW Positions	
		SW903	SW902
1	1 - 16	0	0
2	17 - 32	0	1
3	33 - 48	0	2
4	49 - 64	0	3
5	65 - 80	0	4
6	81 - 96	0	5
7	97 - 112	0	6
8	113 - 128	0	7
9	129 - 144	0	8
10	145 - 160	0	9
11	161 - 172	0	A
12	172 - 192	0	B
13	193 - 208	0	C
14	209 - 224	0	D
15	225 - 240	0	E
16	241 - 256	0	F



- Position jumper connectors (CN101, CN151, CN201, CN251, CN301, CN351, CN401, CN451, CN501, CN551, CN601, CN651, CN701, CN751, CN801, and CN851) on the board as shown below.



The jumper connector positions designate the following functions as shown below.

- Video Input Termination
 - 5 and 6 Closed: 75 Ω termination
 - 5 and 6 Open: High Z (impedance) termination
- Clamping Circuit
 - 8 and 10, 7 and 9 Closed: Off
 - 7 and 8, 9 and 10 Closed: On
- Video Output Mode
 - 1 and 2, 3 and 4 Closed: Wired Loop Through
 - 1 and 3, 2 and 4 Closed: Buffered Through

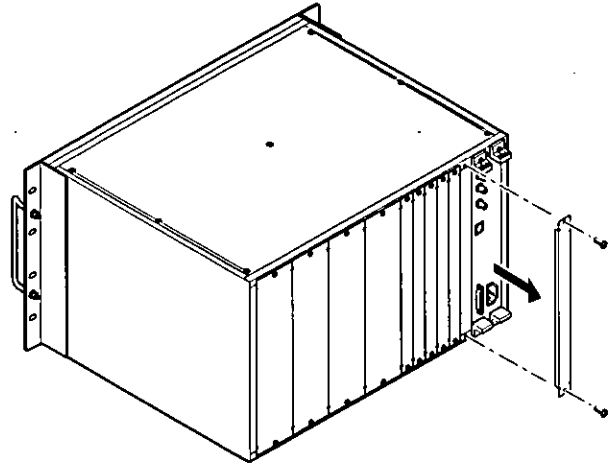
For detail settings, refer to the appendix on page 5.

Installation

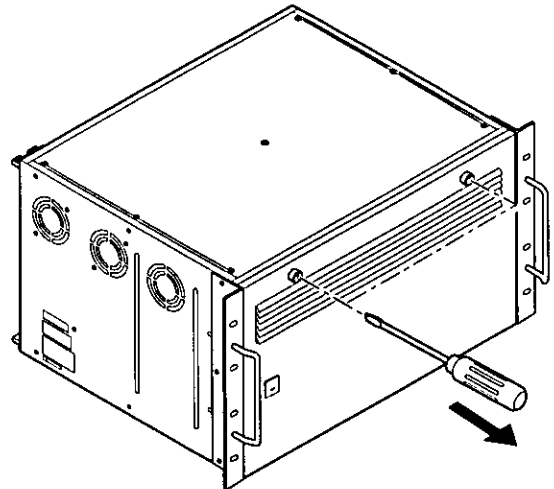
The following installation should be made by qualified service personnel or system installers.

Installing Additional Extension Boards

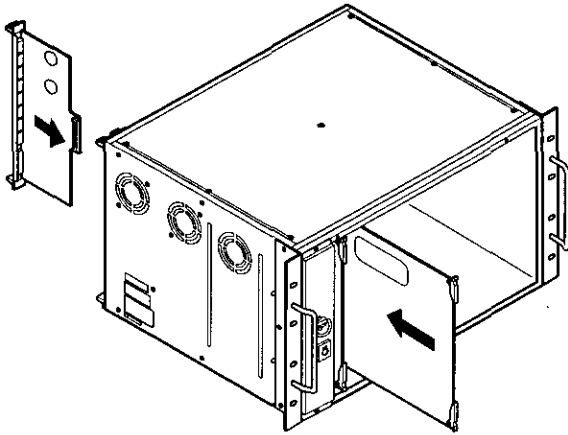
- Remove the screws from the rear panel(s) of the WJ-SX850 Matrix Switcher Card Cage.



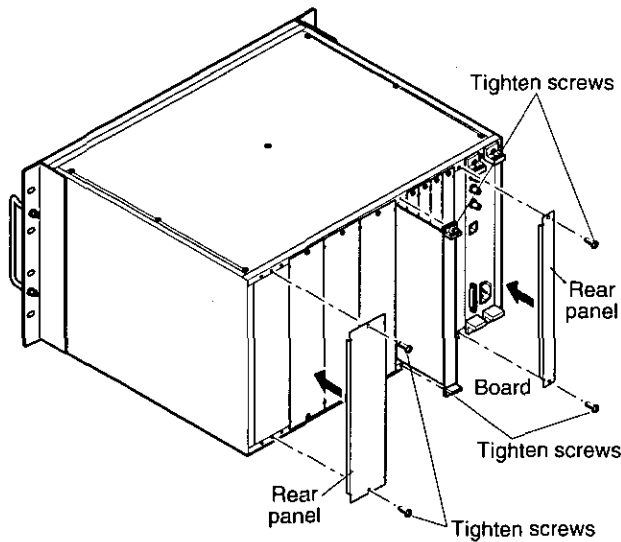
- Remove the rear panel(s).
- Remove the front panel of the cage by removing the two screws on the panel shown below.



- Place the Boards into the specified positions in the front or rear of the Cage by sliding them along the board guides as shown below.



- Make sure to push in the Boards until they are seated firmly.
- Secure the rear board by tightening the two screws on the board.

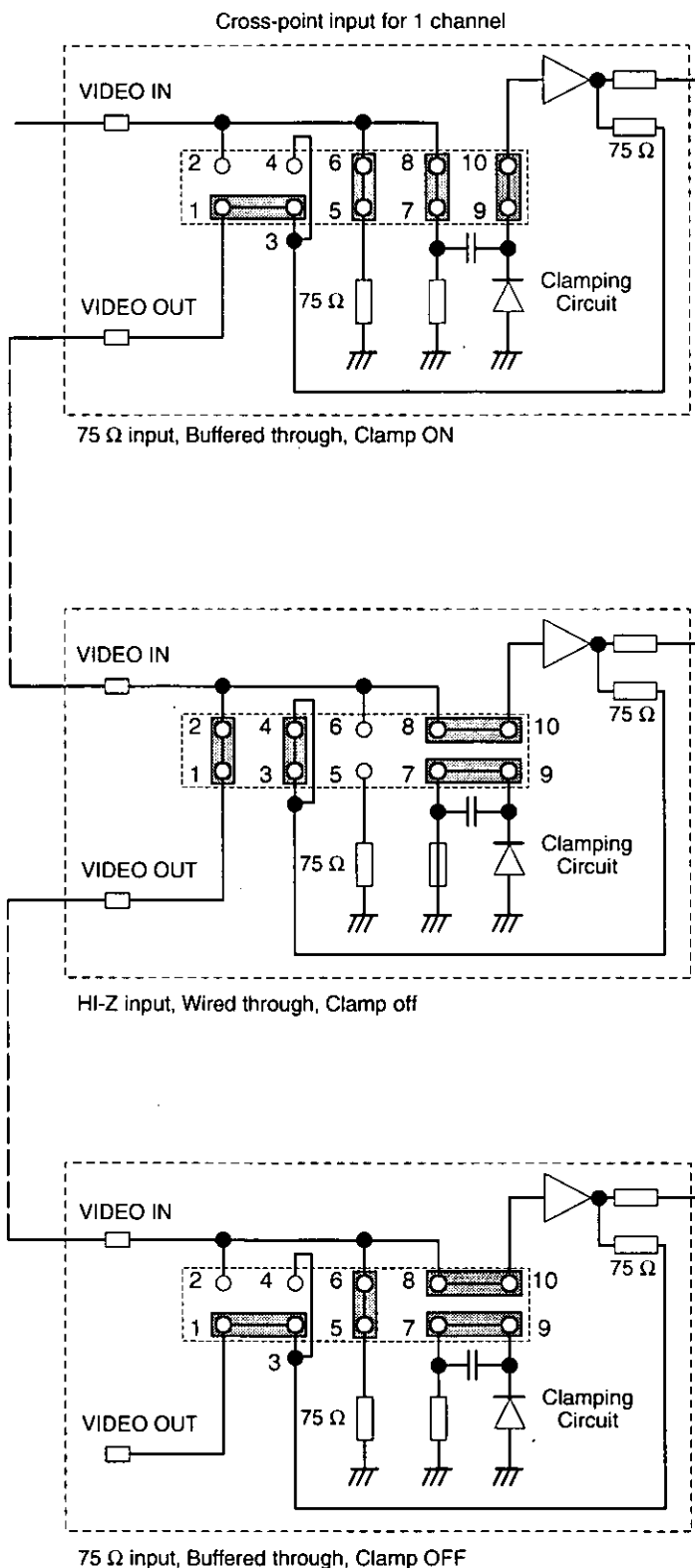


- Close open spaces on the rear of the Cage with the supplied rear panel(s).
- Close the front of the cage by fixing the front panel.

Appendix

● Jumper Connector Positions for Cage Extension

Examples of jumper connector settings are shown below.



Initial-stage cage:

- Video input is received at the input circuit terminated at 75 Ω .
- The through circuit used to transfer the same input signal to another cage is buffered in this cage before 75 Ω transmission.
- The signal output is clamped before sending it out to the board circuit to adjust the black level to that of another input signal.

Middle-stage cage: Other than the initial and final stages

- No clamping circuit is required because the signal input has already been clamped at the initial stage and buffered by the DC amplifier.
- To transfer the same input signal to the next-stage cage, position the jumper connectors for wired loop-through. With a wired system, a failure of the power supply to the middle-stage cage would not cause any problem in the successive stages.

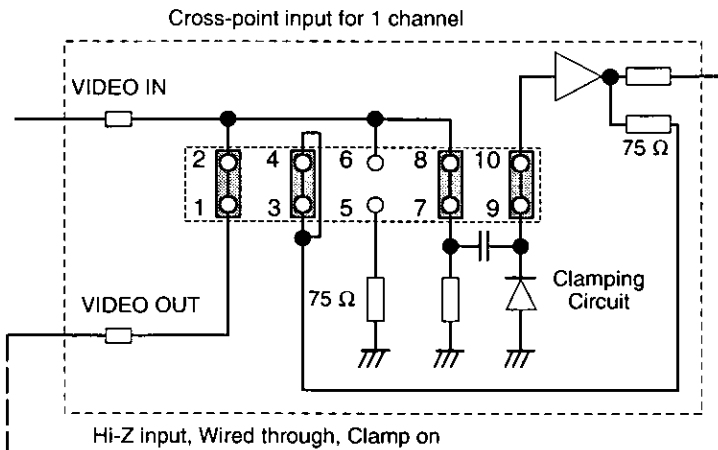
Note: If the video output is 65 or above, this middle-stage cage may need further extension.

Final-stage cage:

- In the final stage, the signal sent from the initial stage is matched to 75 Ω . The video signal therefore is received at the input circuit terminated at 75 Ω .
- No clamping is required here because the signal input is already clamped as in the middle stage.
- The output signal for monitoring and other equipment is buffered through.

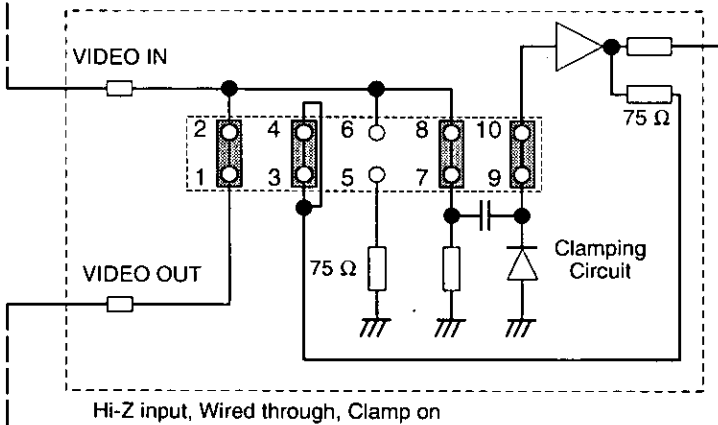
● Jumper Connector Positions for Cage Extension

When the input video signal is terminated at another unit and it need be received at a Hi-Z impedance, position jumper connectors on the board to the position shown below.



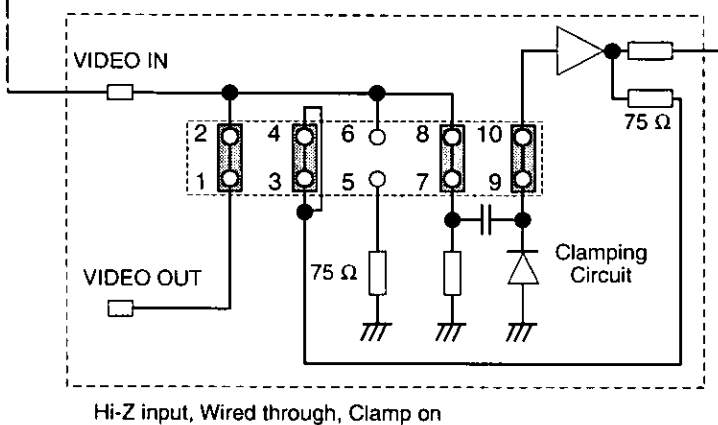
Initial-stage cage:

- Video input is received at the input circuit terminated at a high impedance.
- Wire the through circuit to be used for transferring the same input signal to another cage.
- The signal output is clamped before sending it out to the board circuit to adjust the black level to that of another input signal.



Middle-stage cage:

- Position the jumper connectors as for the initial stage cage.



Final-stage cage:

- Position the jumper connectors as for the initial-stage cage.
- When the jumper connectors are in this position, there is no 75 Ω drive for VIDEO OUT. If output is required at 75 Ω termination, change jumper positions 1-2 and 3-4 to 1-3.

■ Specifications

VIDEO Input (1 - 2):	1.0 V[p-p]/75 Ω composite video signal 8 inputs 25-pin D-sub connector (x2)
Video Output (1 - 2):	1.0 V[p-p]/75 Ω composite video signal 8 outputs 25-pin D-sub connector (x2)
Dimensions:	Front Board: 255(W) x 250(H) x 12(D) 10-1/16"(W) x 9-13/16"(H) x 1/2"(D) Rear Board: 117.5(W) x 265(H) x 20(D) 4-5/8"(W) x 10-7/16"(H) x 13/16"(D)
Weight:	0.5 kg (1.1 lbs)

Weight and dimensions indicated are approximate.
Specifications are subject to change without notice.

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