

SYSTEM 4_{xi} PROJECTOR COMMUNICATIONS KIT

ATTENTION!

PLEASE READ THIS DOCUMENT FOR IMPORTANT INSTALLATION INSTRUCTIONS

THIS KIT HAS BEEN SHIPPED WITH THE FOLLOWING COMPONENTS:

Kit Type: AMPRO

Included Communications Adapter(s):

Quantity	Part Number	Description
1	26-477-01	ADP, UNV, "H"
1	26-304-01	ADP, AMPRO CRT
1	26-468-01	ADP, UNV, "B"
1	26-467-01	ADP, UNV, "A"

THE TABLE BELOW LISTS THE POSSIBLE CONFIGURATION(S) AND CORRESPONDING COMMUNICATIONS ADAPTER(S) FOR YOUR PROJECTOR MANUFACTURER'S VARIOUS MODELS. **PLEASE NOTE THAT YOUR SWITCHER HAS BEEN CONFIGURED AS INDICATED BY THE "✓" IN THE "CONFIG AS" COLUMN.** IF YOUR PROJECTOR MODEL **DIFFERS** FROM THIS CONFIGURATION, YOU **MUST** RECONFIGURE YOUR SWITCHER WITH THE CORRECT SETTINGS.

PLEASE REFER TO THE FOLLOWING PAGES FOR COMPLETE CONFIGURATION AND SIGNAL CONNECTION INSTRUCTIONS.

THIS SWITCHER HAS BEEN CONFIGURED FOR: AMPRO CRT

CONFIG AS	MODEL	SW1				SW2	SW3	SW4	SW5	SW6	PROJ CABLE	COMM ADAPTER
		1	2	3	4							
	Ampro LCD-150	off	on	off	on	0	0	B	2	0	J15	<none>
	Ampro 160	off	on	off	on	0	0	F	F	0	J15	26-477-01
✓	Ampro CRT	on	off	off	on	1	0	0	5	0	J15	26-304-01
	Amp Light Valve	on	off	off	on	1	0	0	5	0	J15	26-468-01
	Ampro Alice	off	on	off	on	1	0	0	5	0	J15	26-467-01

Connecting System 4*xi* to Ampro LCD-150

If the System 4*xi* is already configured for a Ampro LCD-150 projector, **go to step 4**. If it is not set up correctly, it will be necessary to change switch settings on the System 4*xi*'s Main Controller Board. Begin at Step 1 to verify the correct configuration.

1. Use the Front Panel to display the Information Menu to verify that the System 4*xi* is already set up for the Ampro LCD-150. Apply power to the System 4*xi* and do the following:

MENU SELECT

8. INFORMATION

ENTER

INFORMATION

[System 4 model and software version displayed here]

1

PRJ= (See note.)

PRJ BAUD= (See note.)

UNIT No.= (See note.)

HST BAUD= (See note.)

(Note: Information depends on System 4 setup.)

PRJ = AMPRO

PRJ BAUD = 9600

UNIT No. = 000

HST BAUD = 9600 (value depends upon setup Menu 3)

2. Go to the procedure on page 2-3 of the *System 4*xi* User's Manual* to remove the System 4*xi* cover. Then go to page 2-4 and refer to the configuration below to set up the Main Controller board. Continue with Step 3 (below) when the configuration is correct.
- | Config as | Projector | SW1: 1-2-3-4 | SW2 | SW3 | SW4 | SW5 | SW6 | Prj Cable | Comm Adapter |
|-----------|---------------|---------------|-----|-----|-----|-----|-----|-----------|--------------|
| | Ampro LCD-150 | off-on-off-on | 0 | 0 | B | 2 | 0 | J15 | 26-475-01 |
-
3. Double-check your work and be sure the System 4*xi* cover is on securely.

4. Install the System 4*xi* in its place of operation (i.e. rack), but **not** powered on.

Changes in some switch configurations are not detected until the power is removed **at the AC cord**, and then restored.

Refer to the following connection diagram and continue.

5. The Ampro LCD-150 Comm Adapter (26-475-01) has a 9-pin male connector that accommodates the Comm Extension cable. The other end of the Comm Adapter plugs into the projector's RS-232C port.
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- Page 1

6. Plug the 15-pin HD connector of the Projector Communications Extension cable into the PJ Comm port on the System 4*xi*.

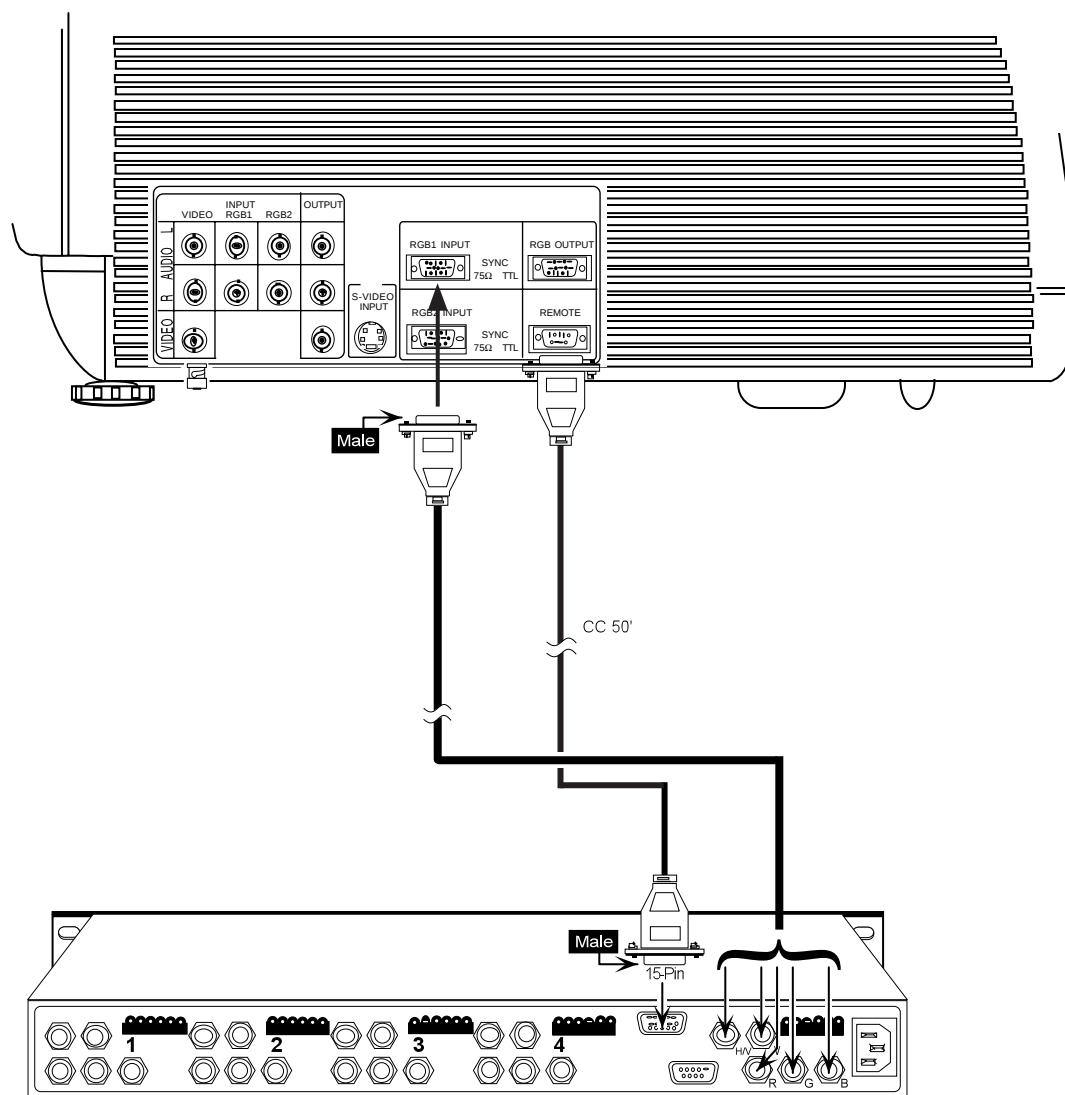


Secure all of the connector screws.

7. Plug the (4 or 5) BNC connectors from one end of the (user-supplied) RGBS/HV cable onto the System 4*xi* output and those on the other end onto the matching BNCs on the Ampro LCD-150 connector panel.

System 4^{xi} Series – Ampro LCD-150 Projector Connections

Use the illustration below as a guide when connecting the System 4*xi* to an Ampro LCD-150 projector. Refer to Ampro documentation to continue the installation.



Connecting the System 4^{xi} to an Ampro LCD-150 Projector



*In a rack mount, do NOT allow the weight of the cables to be supported by the System 4*x*. See page 2-5 for cabling guidelines.*

Connecting System 4*xi* to Ampro 160

If the System 4*xi* is already configured for a Ampro 160 projector, **go to step 4**. If it is not set up correctly, it will be necessary to change switch settings on the System 4*xi*'s Main Controller Board. Begin at Step 1 to verify the correct configuration.

1. Use the Front Panel to display the Information Menu to verify that the System 4*xi* is already set up for the Ampro 160. Apply power to the System 4*xi* and do the following:

MENU SELECT

8. INFORMATION

ENTER

INFORMATION

[System 4 model and software version displayed here]

1

>PRJ= (See note.)

>PRJ BAUD= (See note.)

>UNIT No.= (See note.)

>HST BAUD= (See note.)

(Note: Information depends on System 4 setup.)

a. Press **MENU** to display the MENU SELECT on the LCD screen.

b. Press **▼** or **▲** to step to Menu 8.

c. Press **ENTER** to select this menu.

d. Press **▼** or **▲** to display the configuration. The example to the left is general, yours will show the System 4*xi* model name, the software version and the following information:
PRJ = AMPRO
PRJ BAUD = 9600
UNIT No. = 000
HST BAUD = 9600 (value depends upon setup Menu 3)

2. Go to the procedure on page 2-3 of the *System 4*xi* User's Manual* to remove the System 4*xi* cover. Then go to page 2-4 and refer to the configuration below to set up the Main Controller board. Continue with Step 3 (below) when the configuration is correct.
- | Config as | Projector | SW1: 1-2-3-4 | SW2 | SW3 | SW4 | SW5 | SW6 | Prj Cable | Comm Adapter |
|-----------|-----------|---------------|-----|-----|-----|-----|-----|-----------|--------------|
| | Ampro 160 | off-on-off-on | 0 | 0 | F | F | 0 | J15 | 26-477-01 |
- The diagram shows the main controller board with several components labeled: SW1 (a 4-position DIP switch with positions labeled P, E, Z, T, and an arrow pointing to the 'ON' position), SW2, SW3, and SW4 (rotary switches with positions 0 through 9 and letters A through F), and SW5 (another rotary switch with positions 0 through 9 and letters A through F). A 9-pin connector labeled J15 is also shown. Arrows point from the labels to the corresponding components on the board.
3. Double-check your work and be sure the System 4*xi* cover is on securely.

4. Install the System 4*xi* in its place of operation (i.e. rack), but **not** powered on.

Changes in some switch configurations are not detected until the power is removed **at the AC cord**, and then restored.

Refer to the following connection diagram and continue.

5. The Ampro 160 Comm Adapter (26-477-01) has a 9-pin male connector that accommodates the Comm Extension cable. The other end of the Comm Adapter plugs into the projector's RS-232C port.
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6. Plug the 15-pin HD connector of the Projector Communications Extension cable into the PJ Comm port on the System 4*xi*.

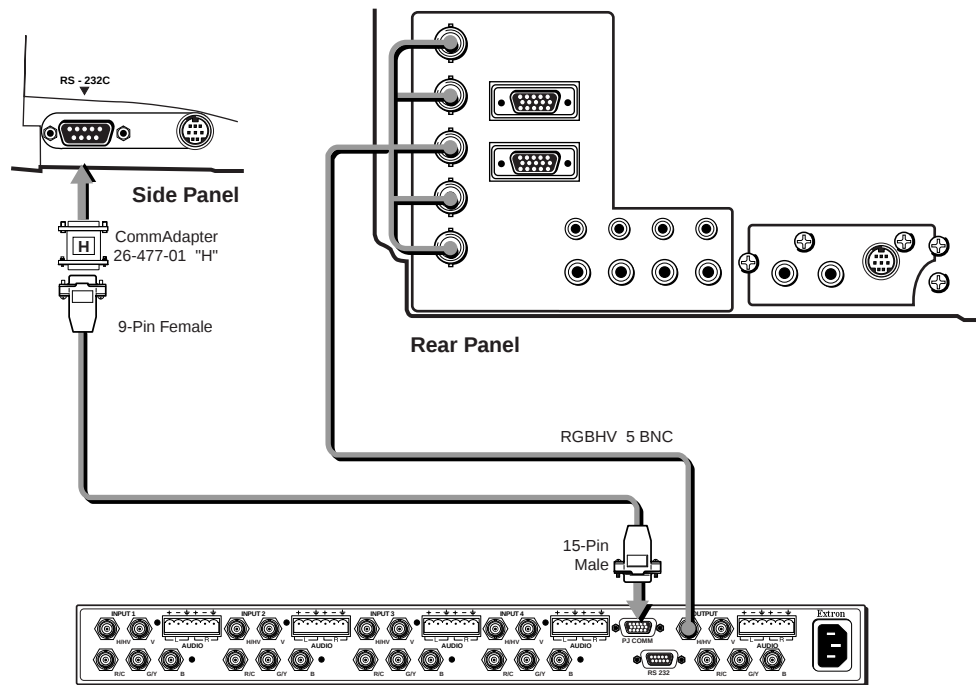


Secure all of the connector screws.

7. Plug the (4 or 5) BNC connectors from one end of the (user-supplied) RGBS/HV cable onto the System 4*xi* output and those on the other end onto the matching BNCs on the Ampro 160 connector panel.

System 4*xi* Series – Ampro 160 Projector Connections

Use the illustration below as a guide when connecting the System 4*xi* to an Ampro 160 projector. Refer to Ampro documentation to continue the installation.



Connecting the System 4*xi* to an Ampro 160 Projector



*In a rack mount, do NOT allow the weight of the cables to be supported by the System 4*xi*. See page 2-5 for cabling guidelines.*

Connecting System 4*xi* to Ampro Light Valve Projector

If the System 4*xi* is already configured for an Ampro projector, **go to step 4**. If it is not set up correctly, it will be necessary to change switch settings on the System 4*xi*'s Main Controller Board. Begin at Step 1 to verify the correct configuration.

1. Use the Front Panel to display the Information Menu to verify that the System 4*xi* is already set up for the Ampro projector. Apply power to the System 4*xi* and do the following:

MENU SELECT

↓↑

8. INFORMATION

↓ ENTER

INFORMATION

↓↑

>SYS [System 4 model and software version displayed here]

↓ V/A

>PRJ= (See note.)

↓ V/A

>PRJ BAUD= (See note.)

↓ V/A

>UNIT No.= (See note.)

↓ V/A

>HST BAUD= (See note.)

(Note: Information depends on System 4 setup.)

a. Press **MENU** to display the MENU SELECT on the LCD screen.

b. Press **↓** or **↑** to step to Menu 8.

c. Press **ENTER** to select this menu.

d. Press **↓** or **↑** to display the configuration. The example to the left is general, yours will show the System 4*xi* model name, the software version and the following information:
PRJ = AMPRO
PRJ BAUD = 9600
UNIT No. = 001
HST BAUD = 9600 (value depends upon setup Menu 3)

2. Go to the procedure on page 2-3 to remove the System 4*xi* cover and then go to page 2-4 to set up the Main Controller board. Return to Step 3 (below) when the configuration is correct.
- | Config as | Projector | SW1: 1-2-3-4 | SW2 | SW3 | SW4 | SW5 | SW6 | Prj Cable | Comm Adapter |
|-----------|-------------------|---------------|-----|-----|-----|-----|-----|-----------|--------------|
| | Ampro Light Valve | on-off-off-on | 1 | 0 | 0 | 5 | 0 | J15 | 26-468-01 |
-
3. Double-check your work and be sure the System 4*xi* cover is on securely.

4. Install the System 4*xi* in its place of operation (i.e. rack), but **not** powered on.

Changes in some switch configurations are not detected until the power is removed **at the AC cord**, and then restored.

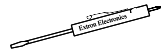
Refer to the following connection diagram and continue.

5. Plug the Comm Adapter's 9-pin female connector onto the male connector on the rear panel of the Ampro Light Valve projector. Connect one end of the CC 50' cable into the Comm Adapter.

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6. Plug the 9-pin male connector of the CC 50' cable into the PJ Comm port of System 4*xi*.

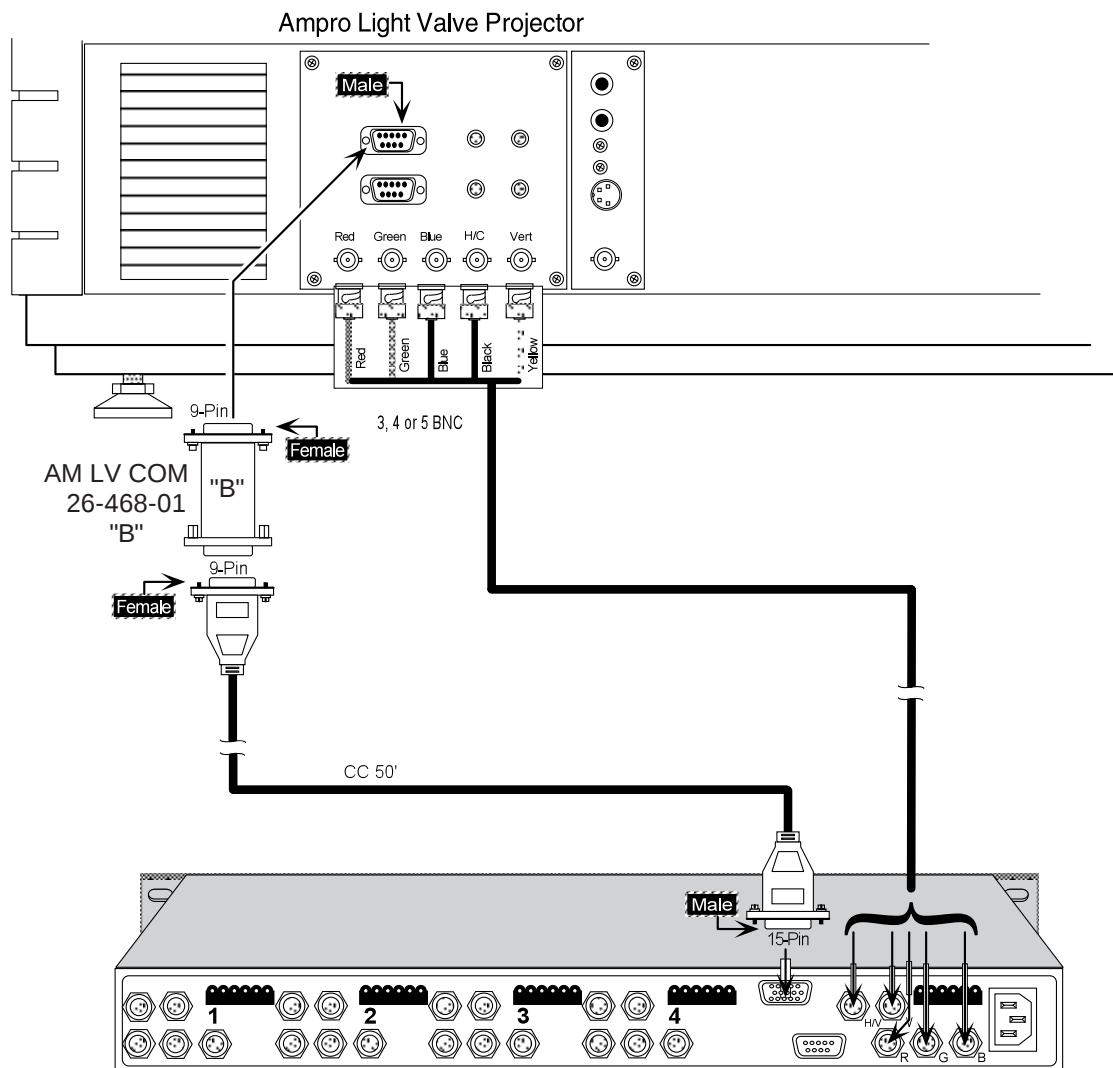


Secure all of the connector screws.

7. Connect the BNC connectors from one end of the (user-supplied) RGBS/HV cable onto the System 4*xi* output and those on the other end onto the BNC connectors on the rear of the projector according to the application requirements. (RGsB, S-Video and/or Composite Video).

System 4*xi* - Ampro Light Valve Projector Connections

Use the illustration below as a guide when connecting the System 4*xi* to an Ampro Light Valve projector. Refer to Ampro documentation to continue the installation.



Connecting the System 4*xi* to an Ampro Light Valve Projector



*In a rack mount, do NOT allow the weight of the cables to be supported by the System 4*xi*. See page 2-5 for cabling guidelines.*

Connecting System 4*xi* to Ampro CRT Projector

If the System 4*xi* is already configured for an Ampro CRT projector, **go to step 4**. If it is not set up correctly, it will be necessary to change switch settings on the System 4*xi*'s Main Controller Board. Begin at Step 1 to verify the correct configuration.

1. Use the Front Panel to display the Information Menu to verify that the System 4*xi* is already set up for the Ampro projector. Apply power to the System 4*xi* and do the following:

MENU SELECT

8. INFORMATION

ENTER

INFORMATION

[System 4 model and software version displayed here]

PRJ= (See note.)

PRJ BAUD= (See note.)

UNIT No.= (See note.)

HST BAUD= (See note.)

(Note: Information depends on System 4 setup.)

}

a. Press **MENU** to display the MENU SELECT on the LCD screen.

b. Press **▼** or **▲** to step to Menu 8.

c. Press **ENTER** to select this menu.

d. Press **▼** or **▲** to display the configuration. The example to the left is general, yours will show the System 4*xi* model name, the software version and the following information:
PRJ = AMPRO
PRJ BAUD = 9600
UNIT No. = 001
HST BAUD = 9600 (value depends upon setup Menu 3)

2. Go to the procedure on page 2-3 to remove the System 4*xi* cover and then go to page 2-4 to set up the Main Controller board. Return to Step 3 (below) when the configuration is correct.
- | Config as | Projector | SW1: 1-2-3-4 | SW2 | SW3 | SW4 | SW5 | SW6 | Prj Cable | Comm Adapter |
|-----------|-----------|---------------|-----|-----|-----|-----|-----|-----------|--------------|
| ✓ | Ampro CRT | on-off-off-on | 1 | 0 | 0 | 5 | 0 | J15 | 26-304-01 |
-
3. Double-check your work and be sure the System 4*xi* cover is on securely.

4. Install the System 4*xi* in its place of operation (i.e. rack), but **not** powered on.

Changes in some switch configurations are not detected until the power is removed **at the AC cord**, and then restored.

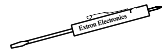
Refer to the following connection diagram and continue.

5. Plug the 9-pin female connector end of the cable shown as “CC 50'” into the Ampro Comm adapter. Connect the other end of the Comm adapter into the “Host” connector of the projector. (The name on the connectors may be different from one projector to another.)

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6. Plug the 9-pin male connector of the CC 50' cable into the PJ Comm port of System 4*xi*.

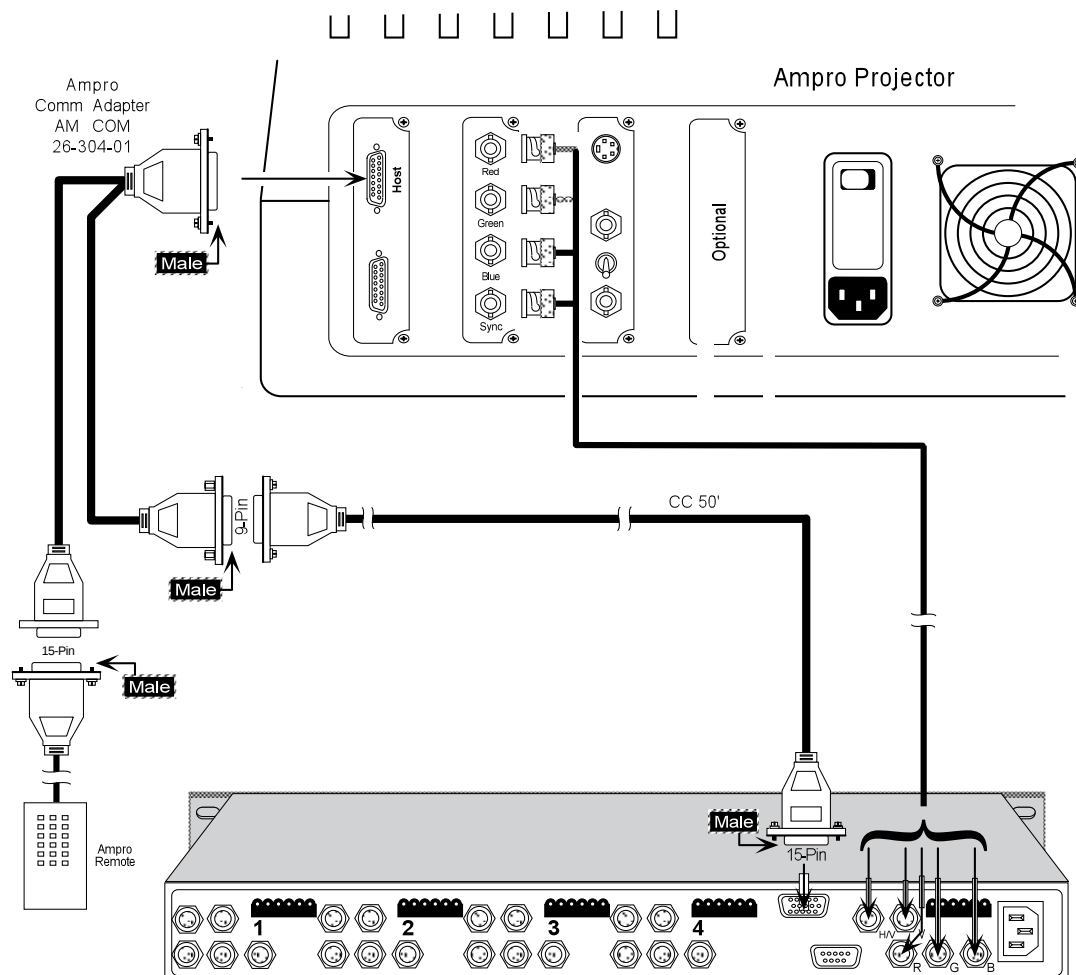


Secure all of the connector screws.

7. Connect the BNC connectors from one end of the (user-supplied) RGBS/HV cable onto the System 4*xi* output and those on the other end onto the BNC connectors on the rear of the projector according to the application requirements. (RGsB, S-Video and/or Composite Video).

System 4*xi* - Ampro CRT Projector Connections

Use the illustration below as a guide when connecting the System 4*xi* to an Ampro CRT projector. Refer to Ampro documentation to continue the installation.



Connecting the System 4*xi* to an Ampro CRT Projector



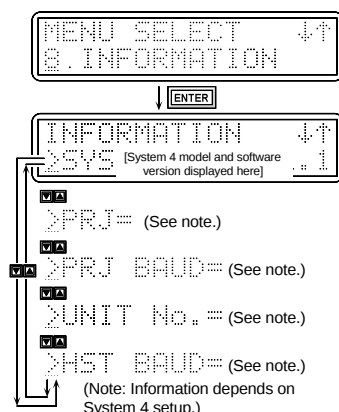
In a rack mount, do NOT allow the weight of the cables to be supported by the System 4*xi*. See page 2-5 for cabling guidelines.

Connecting System 4*xi* to Ampro Type II (CRT) Projector

This procedure is the same as the previous one, except for the adapter cabling.

If the System 4*xi* is already configured for an Ampro projector, **go to step 4**. If it is not set up correctly, it will be necessary to change switch settings on the System 4*xi*'s Main Controller Board. Begin at Step 1 to verify the correct configuration.

1. Use the Front Panel to display the Information Menu to verify that the System 4*xi* is already set up for the Ampro projector. Apply power to the System 4*xi* and do the following:

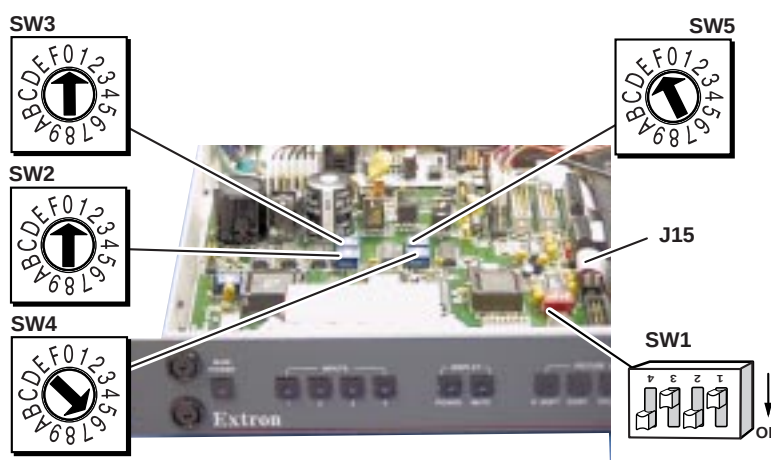


- a. Press **[MENU]** to display the MENU SELECT on the LCD screen.
- b. Press **[DOWN]** or **[UP]** to step to Menu 8.
- c. Press **[ENTER]** to select this menu.
- d. Press **[DOWN]** or **[UP]** to display the configuration. The example to the left is general, yours will show the System 4*xi* model name, the software version and the following information:
 PRJ = AMPRO
 PRJ BAUD = 9600
 UNIT No. = 001
 HST BAUD = 9600 (value depends upon setup Menu 3)

2. Go to the procedure on page 2-3 to remove the System 4*xi* cover and then go to page 2-4 to set up the Main Controller board. Return to Step 3 (below) when the configuration is correct.

Config as	Projector	SW1: 1-2-3-4	SW2	SW3	SW4	SW5	SW6	Prj Cable	Comm Adapter
	Ampro Type II	on-off-off-on	1	0	0	5	0	J15	26-322-01*

* Type II Comm Adapter must be ordered separately



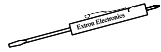
3. Double-check your work and be sure the System 4*xi* cover is on securely.
4. Install the System 4*xi* in its place of operation (i.e. rack), but **not** powered on.



Changes in some switch configurations are not detected until the power is removed **at the AC cord**, and then restored.

Refer to the following connection diagram and continue.

5. The Type II Ampro Comm Adapter (AM COM Type II) is a “Y” cable that accommodates both wired remote and switcher control. Plug the 15-pin HD male connector of the “Y” cable into the PJ Comm port on the System 4_{xi}. Plug the middle 15-pin connector into the Ampro remote control.
6. Plug the 15-pin male connector of the cable marked “CC 50' Type II” into the projector “Host” connector and the 15-pin female connector to the remaining connector on the Comm Adapter.



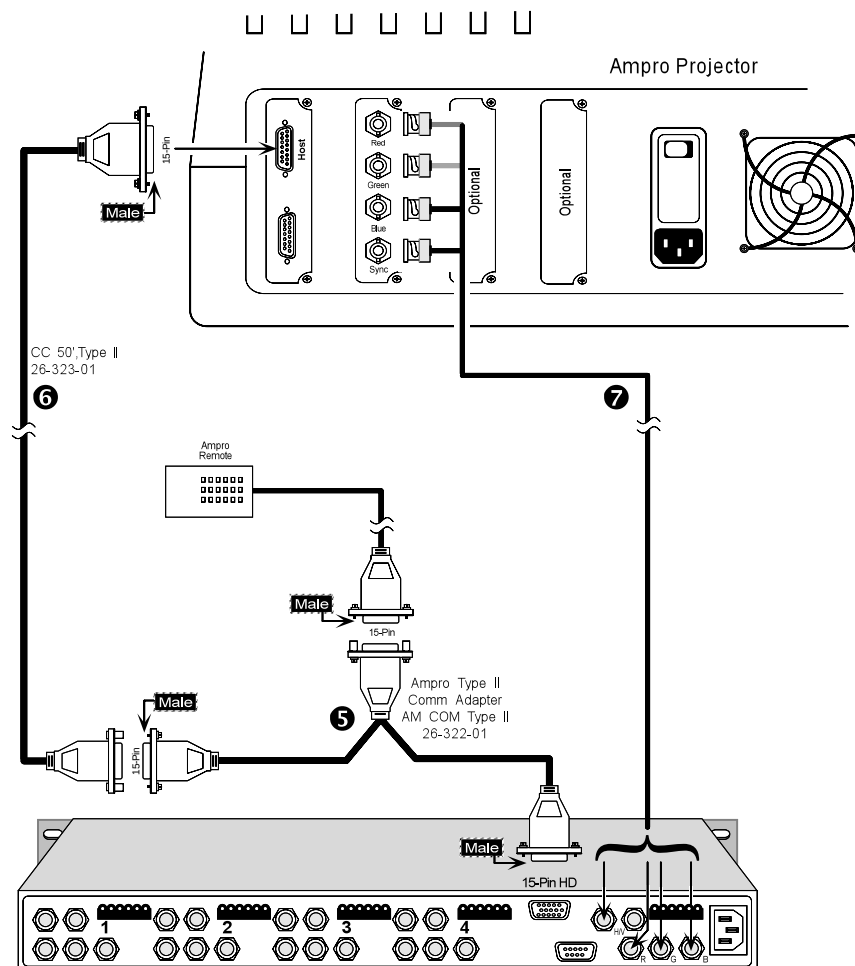
Secure all of the connector screws.

7. Plug the (4 or 5) BNC connectors from one end of the (user-supplied) RGBS/HV cable onto the System 4_{xi} output and those on the other end onto the BNC connectors on the rear of the projector (marked RGsB/RGBS/RGBHV).

Use the following connection diagram as a guide when connecting the System 4_{xi} to an Ampro projector, using a Type II adapter. Refer to Ampro documentation to continue the installation.

System 4_{xi} Series – Ampro Type II CRT Projector Connections

Use the illustration below as a guide when connecting the System 4_{xi} to an Ampro Type II projector. Refer to Ampro documentation to continue the installation.



Connecting the System 4_{xi} to an Ampro Type II CRT Projector

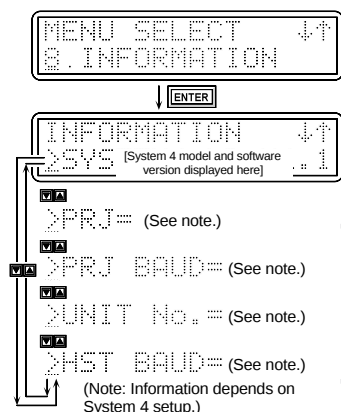


In a rack mount, do NOT allow the weight of the cables to be supported by the System 4_{xi}. See page 2-5 for cabling guidelines.

Connecting System 4_{xi} to Ampro Alice Projector

If the System 4_{xi} is already configured for an Ampro Alice projector, **go to step 4**. If it is not set up correctly, it will be necessary to change switch settings on the System 4_{xi}'s Main Controller Board. Begin at Step 1 to verify the correct configuration.

1. Use the Front Panel to display the Information Menu to verify that the System 4_{xi} is already set up for the Ampro projector. Apply power to the System 4_{xi} and do the following:

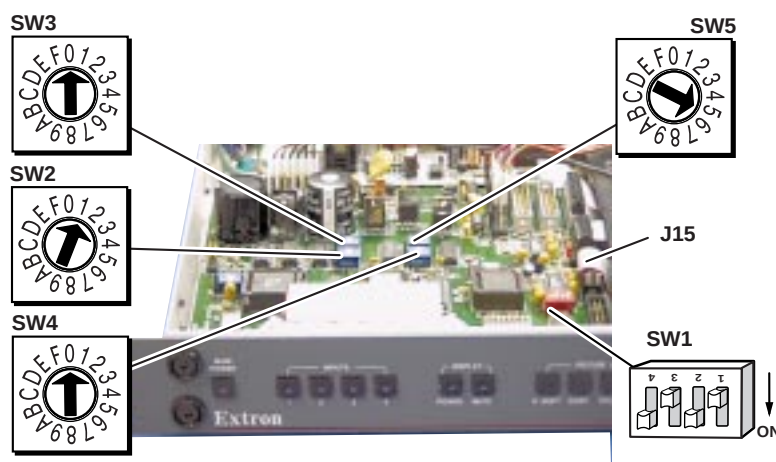


- a. Press **[MENU]** to display the MENU SELECT on the LCD screen.
- b. Press **[DOWN]** or **[UP]** to step to Menu 8.
- c. Press **[ENTER]** to select this menu.
- d. Press **[DOWN]** or **[UP]** to display the configuration. The example to the left is general, yours will show the System 4_{xi} model name, the software version and the following information:
 PRJ = AMPRO
 PRJ BAUD = 9600
 UNIT No. = 001
 HST BAUD = 9600 (value depends upon setup Menu 3)

2. Go to the procedure on page 2-3 to remove the System 4_{xi} cover and then go to page 2-4 to set up the Main Controller board. Return to Step 3 (below) when the configuration is correct.

Config as	Projector	SW1: 1-2-3-4	SW2	SW3	SW4	SW5	SW6	Prj Cable	Comm Adapter
	Ampro Alice	off-on-off-on	1	0	0	5	0	J15	26-467-01*

* Type II Comm Adapter must be ordered separately



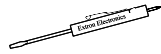
3. Double-check your work and be sure the System 4_{xi} cover is on securely.
4. Install the System 4_{xi} in its place of operation (i.e. rack), but **not** powered on.



Changes in some switch configurations are not detected until the power is removed **at the AC cord**, and then restored.

Refer to the following connection diagram and continue.

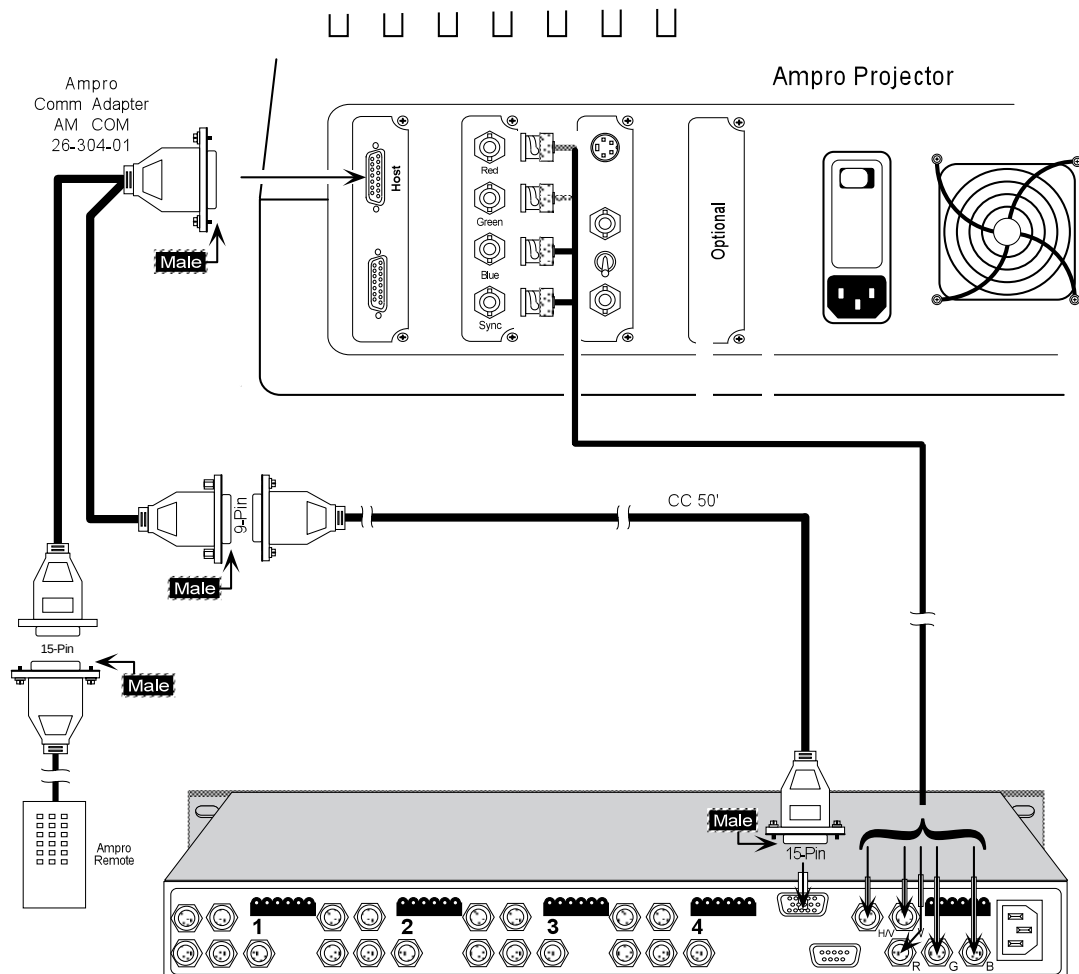
5. Plug the 9-pin female connector end of the cable shown as "CC 50'" into the Ampro Comm adapter. Connect the other end of the Comm adapter into the "Host" connector of the projector. (The name on the connectors may be different from one projector to another.)
6. Plug the 9-pin male connector of the CC 50' cable into the PJ Comm port of System 4*xi*.
7. Connect the BNC connectors from one end of the (user-supplied) RGBS/HV cable onto the System 4*xi* output and those on the other end onto the BNC connectors on the rear of the projector according to the application requirements. (RGsB, S-Video and/or Composite Video).



Secure all of the connector screws.

System 4*xi* - Ampro Alice Projector Connections

Use the illustration below as a guide when connecting the System 4*xi* to an Ampro Alice projector. Refer to Ampro documentation to continue the installation.



Connecting the System 4*xi* to an Ampro Alice Projector



In a rack mount, do NOT allow the weight of the cables to be supported by the System 4*xi*. See page 2-5 for cabling guidelines.