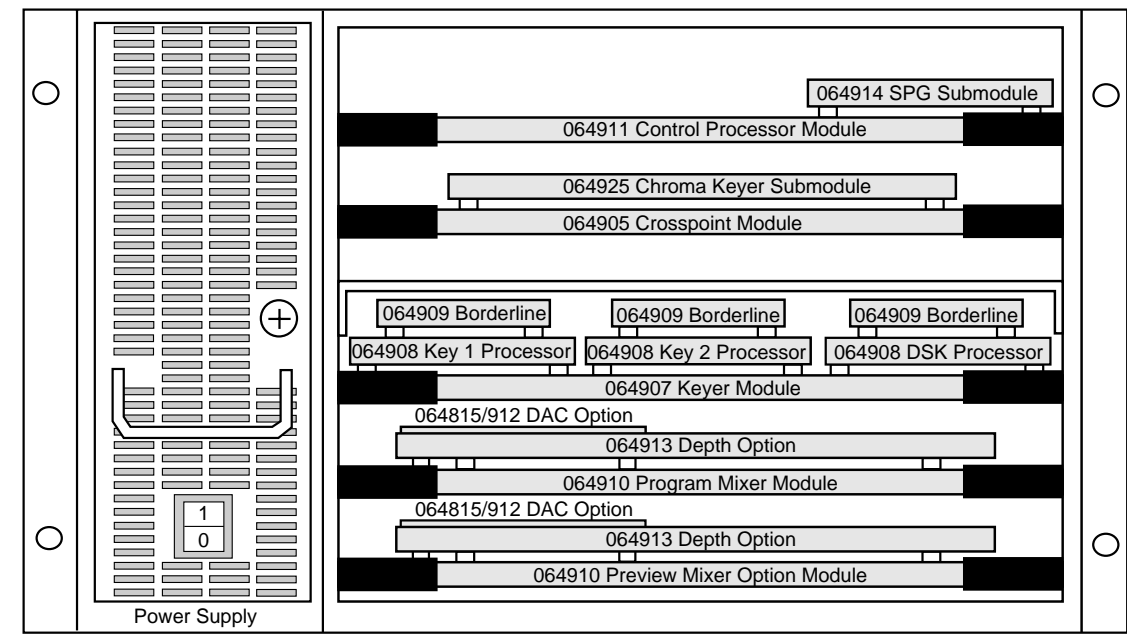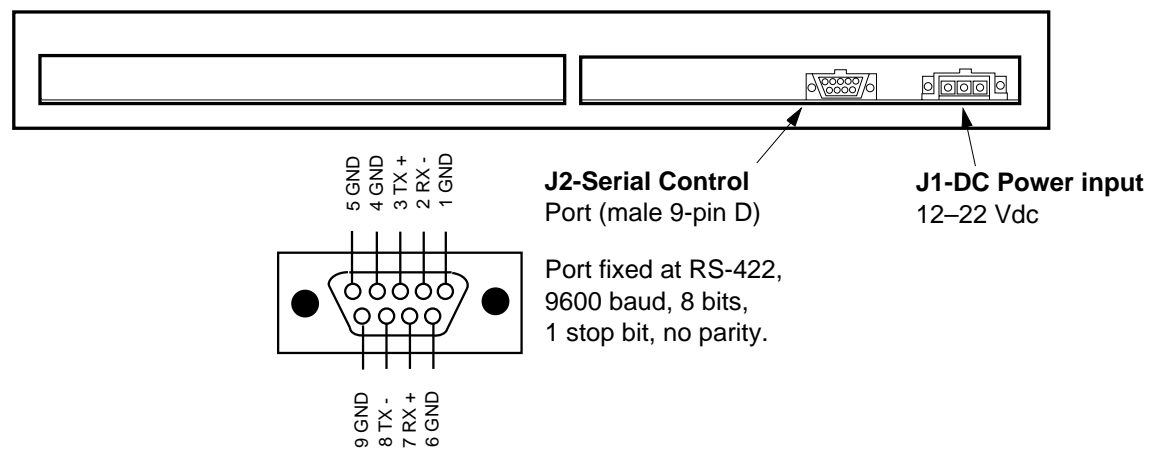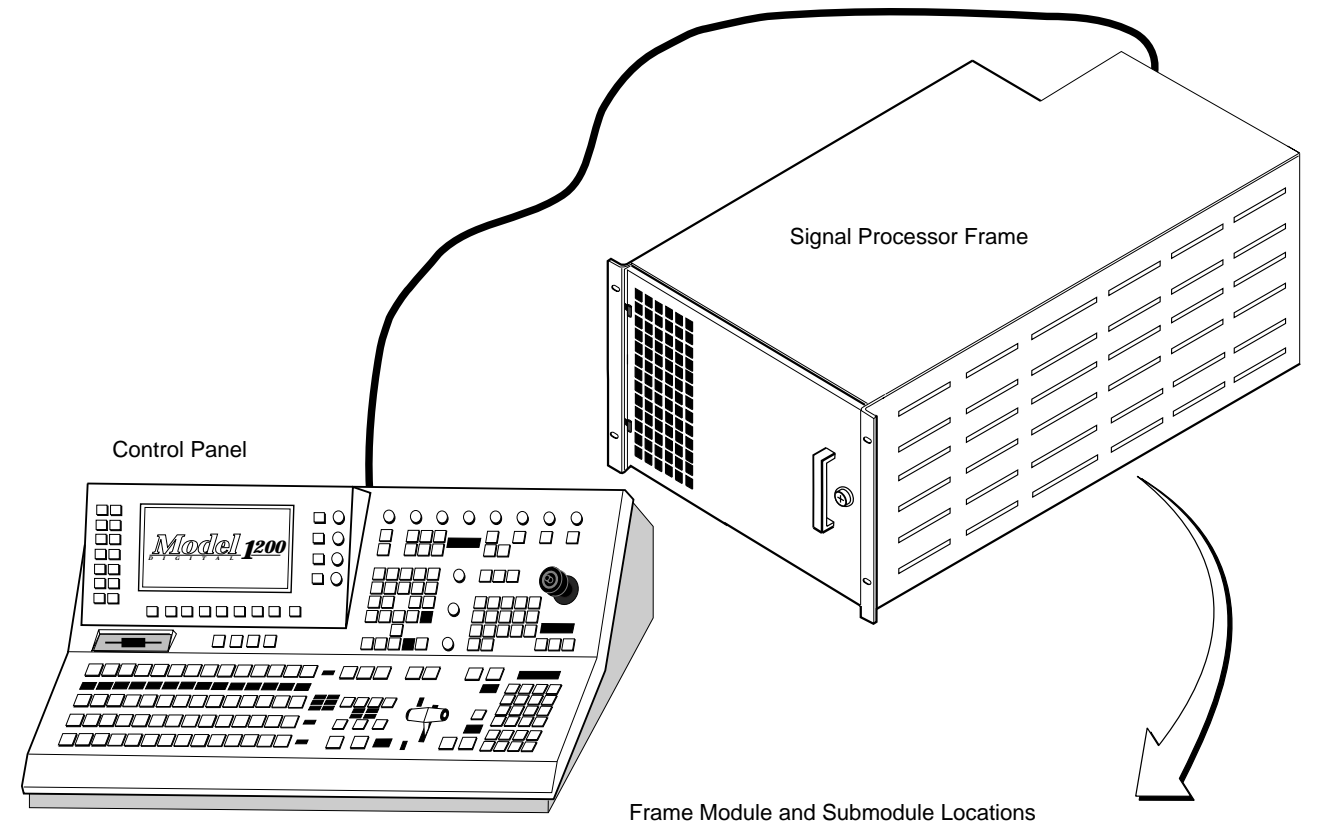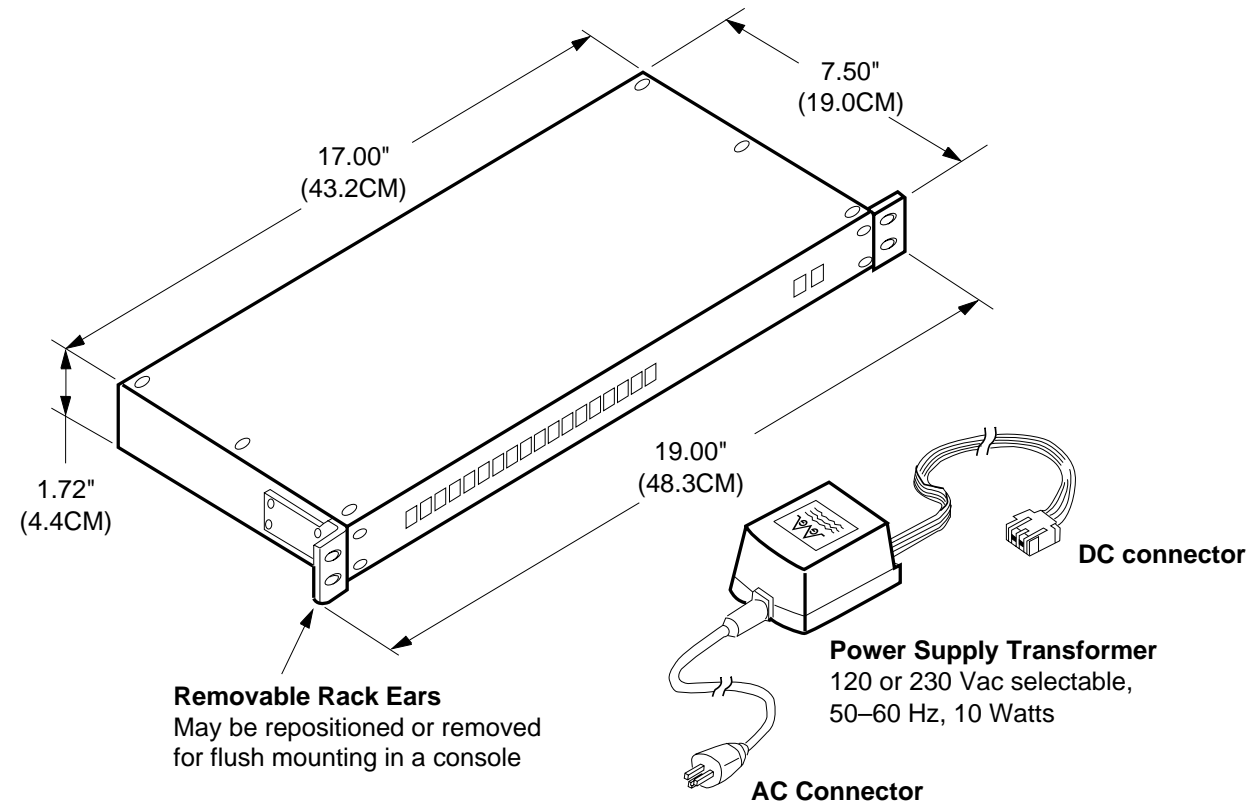## Satellite Auxiliary Control Panel Option

The Satellite Auxiliary Bus Panel provides remote control of the switcher's auxiliary buses. It connects to the switcher electronics frame via a serial control cable connected to a frame serial port. Power is supplied by an external transformer which can be switched between 120 and 230 volts ac.

7.50"
(19.0CM)

17.00"
(43.2CM)

1.72"
(4.4CM)

19.00"
(48.3CM)

DC connector

Power Supply Transformer
120 or 230 Vac selectable,
50–60 Hz, 10 Watts

AC Connector

Removable Rack Ears
May be repositioned or removed
for flush mounting in a console

5 GND
4 GND
3 TX +
2 RX -
1 GND

9 GND
8 TX -
7 RX +
6 GND

J2-Serial Control
Port (male 9-pin D)

J1-DC Power input
12–22 Vdc

Port fixed at RS-422,
9600 baud, 8 bits,
1 stop bit, no parity.

GrassValley
A TEKTRONIX COMPANY

Model 1200

Digital Production Switcher
Installation Planning Guide

Signal Processor Frame

Control Panel

Frame Module and Submodule Locations

064914 SPG Submodule

064911 Control Processor Module

064925 Chroma Keyer Submodule

064905 Crosspoint Module

064909 Borderline | 064909 Borderline | 064909 Borderline

064908 Key 1 Processor | 064908 Key 2 Processor | 064908 DSK Processor

064907 Keyer Module

064815/912 DAC Option

064913 Depth Option

064910 Program Mixer Module

064815/912 DAC Option

064913 Depth Option

064910 Preview Mixer Option Module

Power Supply

GrassValley

Control Panel Installation

The control panel consists of a single unit which you can place on a desktop or flush mount in a console. Be sure to leave room behind the panel for making cable connections and above the panel for opening the lid.

GPI J27 Female 25-pin D

```
25 NC                    13 GPI OUT7 A1
24 NC                    12 GPI OUT8 A1
23 NC                    11 GND
22 NC                    10 GND
21 NC                     9 GPI IN8 A1
(COM)—20 GPI OUT0 A1      8 GPI IN7 A1
19 GPI OUT1 A1            7 GPI IN6 A1
18 GPI OUT2 A1            6 GPI IN5 A1
17 GPI OUT3 A1            5 GPI IN4 A1
16 GPI OUT4 A1            4 GPI IN3 A1
15 GPI OUT5 A1            3 GPI IN2 A1
14 GPI OUT6 A1            2 GPI IN1 A1
                         1 GPI IN0 A1(COM)
```

General Purpose I/FConnector
8 Inputs trigger switcher functions
8 Outputs trigger external devices

To J27 pin 9 GPI IN 8 A1
To J27 pin 1 GPI IN0 A1 (COM)

Editor Relay

GPI Input Connection Example
Editor relay closes and triggers switcher GPI input

Panel-to-Frame Connection

Control Panel J29 Female 15-pin D

```
15 +14V Sense +      8 NC
14 Transmit -        7 +14V Sense +
13 Transmit +        6 Panel +9V
12 Data Common       5 Lamp +14V
11 Data Common       4 Lamp +14V
10 Receive +         3 NC
 9 Receive -         2 NC
                     1 No Connection (NC)
```
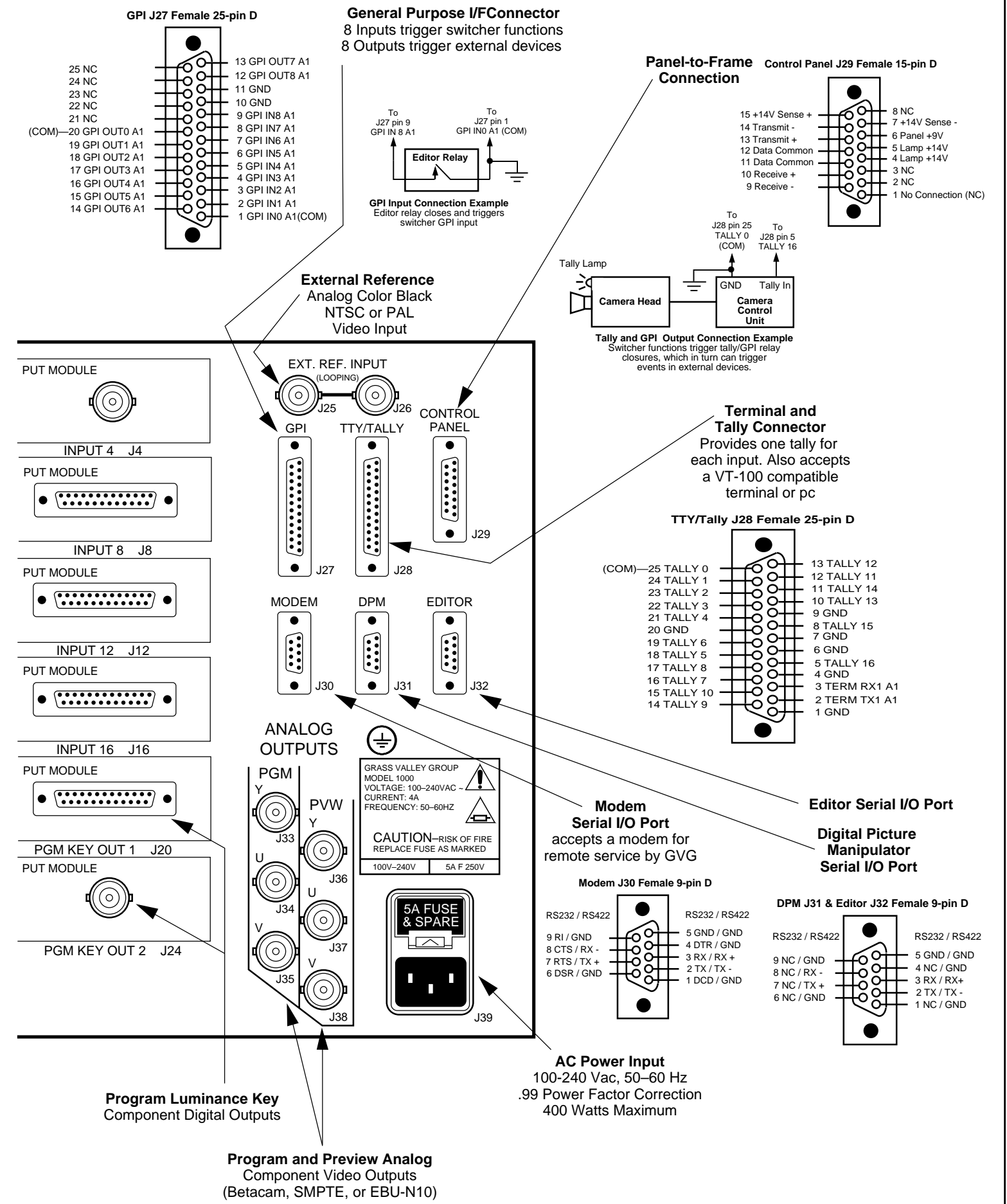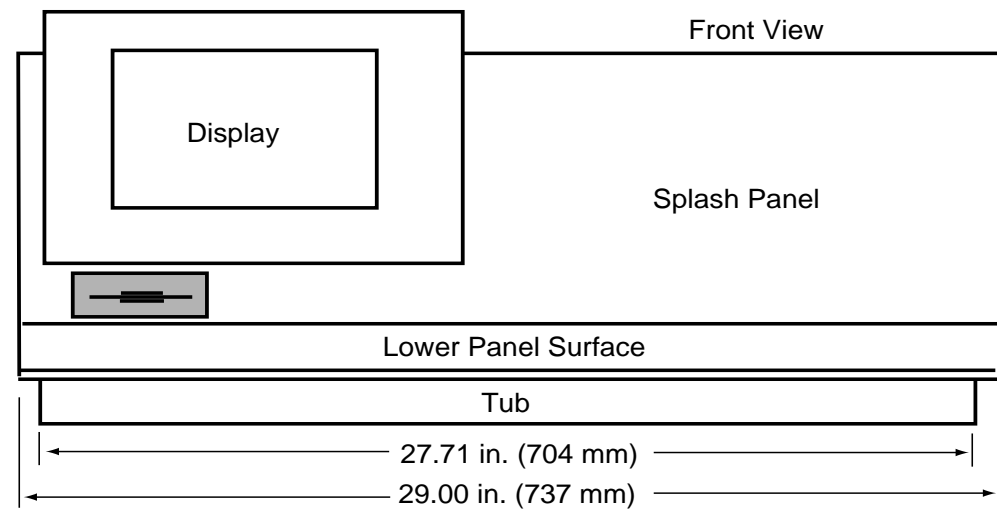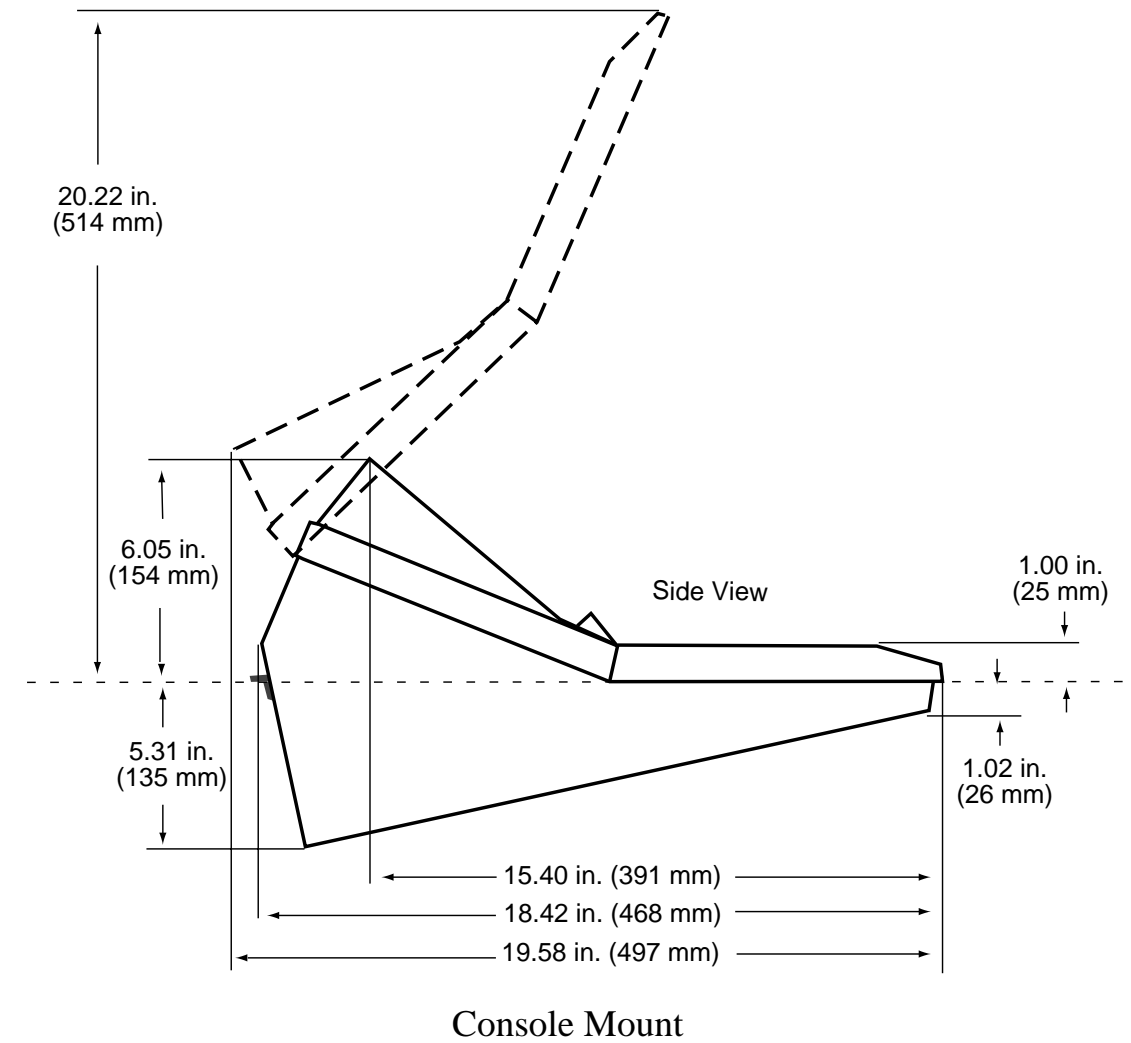
To J28 pin 25 TALLY 0 (COM)
To J28 pin 5 TALLY 16

Tally Lamp

GND   Tally In
Camera Head   **Camera Control Unit**

Tally and GPI Output Connection Example
Switcher functions trigger tally/GPI relay closures, which in turn can trigger events in external devices.

External Reference
Analog Color Black
NTSC or PAL
Video Input

Terminal and Tally Connector
Provides one tally for each input. Also accepts a VT-100 compatible terminal or pc

TTY/Tally J28 Female 25-pin D

```
(COM)—25 TALLY 0     13 TALLY 12
24 TALLY 1           12 TALLY 11
23 TALLY 2           11 TALLY 14
22 TALLY 3           10 TALLY 13
21 TALLY 4            9 GND
20 GND               8 TALLY 15
19 TALLY 6           7 GND
18 TALLY 5           6 GND
17 TALLY 8           5 TALLY 16
16 TALLY 7           4 GND
15 TALLY 10          3 TERM RX1 A1
14 TALLY 9           2 TERM TX1 A1
                     1 GND
```

23.28 in. (591 mm)

Note: Leave 6 inches (152 mm) of space behind the panel for cable connections.

10.66 in. (271 mm)

Side View

2.23 in. (57 mm)

16.57 in. (421 mm)
17.36 in. (441 mm)
17.42 in. (443 mm)

0.83 in. (21 mm)

Desktop Mount

PUT MODULE

EXT. REF. INPUT (LOOPING)
J25   J26

GPI   TTY/TALLY   CONTROL PANEL

INPUT 4 J4
PUT MODULE

INPUT 8 J8
PUT MODULE

J27   J28   J29

MODEM   DPM   EDITOR

INPUT 12 J12
PUT MODULE

J30   J31   J32

INPUT 16 J16
PUT MODULE

ANALOG OUTPUTS

PGM
Y   PVW Y

GRASS VALLEY GROUP
MODEL 1000
VOLTAGE: 100–240VAC
CURRENT: 4A
FREQUENCY: 50–60HZ

CAUTION—RISK OF FIRE
REPLACE FUSE AS MARKED
100V–240V   5A F 250V

Editor Serial I/O Port

Digital Picture Manipulator Serial I/O Port

Modem Serial I/O Port
accepts a modem for remote service by GVG

J33   J36
U   U
J34   J37
V   V
J35   J38

5A FUSE & SPARE

J39

Modem J30 Female 9-pin D

RS232 / RS422   RS232 / RS422
9 RI / GND   5 GND / GND
8 CTS / RX -   4 DTR / GND
7 RTS / TX +   3 RX / RX +
6 DSR / GND   2 TX / TX -
                       1 DCD / GND

DPM J31 & Editor J32 Female 9-pin D

RS232 / RS422   RS232 / RS422
9 NC / GND   5 GND / GND
8 NC / RX -   4 NC / GND
7 NC / TX +   3 RX / RX+
6 NC / GND   2 TX / TX -
                       1 NC / GND

PGM KEY OUT 1 J20
PUT MODULE

PGM KEY OUT 2 J24

AC Power Input
100-240 Vac, 50–60 Hz
.99 Power Factor Correction
400 Watts Maximum

Program Luminance Key
Component Digital Outputs

Program and Preview Analog
Component Video Outputs
(Betacam, SMPTE, or EBU-N10)

Front View

Display

Splash Panel

Lower Panel Surface

Tub

27.71 in. (704 mm)
29.00 in. (737 mm)

System Connections

Serial and Parallel Component Digital Inputs 1-16
CCIR601 4:2:2 525 or 625 lines

PARALLEL INPUT MODULE

INPUT 1   J1   INPUT 2   J2

PARALLEL INPUT MODULE

INPUT 5   J5   INPUT 6   J6

PARALLEL INPUT MODULE

INPUT 9   J9   INPUT 10   J10

PARALLEL INPUT MODULE

INPUT 13   J13   INPUT 14   J14

PARALLEL OUTPUT MODULE

AUX OUT 1   J17   AUX OUT 2   J18

SERIAL OUTPUT MODULE

CLEAN FEED   J21   PVW OUT   J22

SERIAL IN

INPUT 3   J3

PARALLEL IN

INPUT 7   J7

PARALLEL IN

INPUT 11   J11

PARALLEL IN

INPUT 15   J15

PARALLEL OUT

PGM OUT 1   J19

SERIAL OUT

PGM OUT 2   J23

I N P U T S

O U T P U T S

Parallel Component Digital Video Input/Output

13 GND
12 D0
11 D1
10 D2
9 D3
8 D4
7 D5
6 D6
5 D7
4 D8
3 D9
2 GND
1 CLK

25 /D0
24 /D1
23 /D2
22 /D3
21 /D4
20 /D5
19 /D6
18 /D7
17 /D8
16 /D9
15 GND
14 /CLK

Clean Feed Video
(Program without DSK)
Component Digital Output

Preview Video
Component Digital Output

**Aux Bus 1 and 2
and Effects Send**
Component Digital Outputs

Program Video
Component Digital
Outputs

20.22 in.
(514 mm)

6.05 in.
(154 mm)

5.31 in.
(135 mm)

1.00 in.
(25 mm)

Side View

1.02 in.
(26 mm)

15.40 in. (391 mm)

18.42 in. (468 mm)

19.58 in. (497 mm)

Console Mount
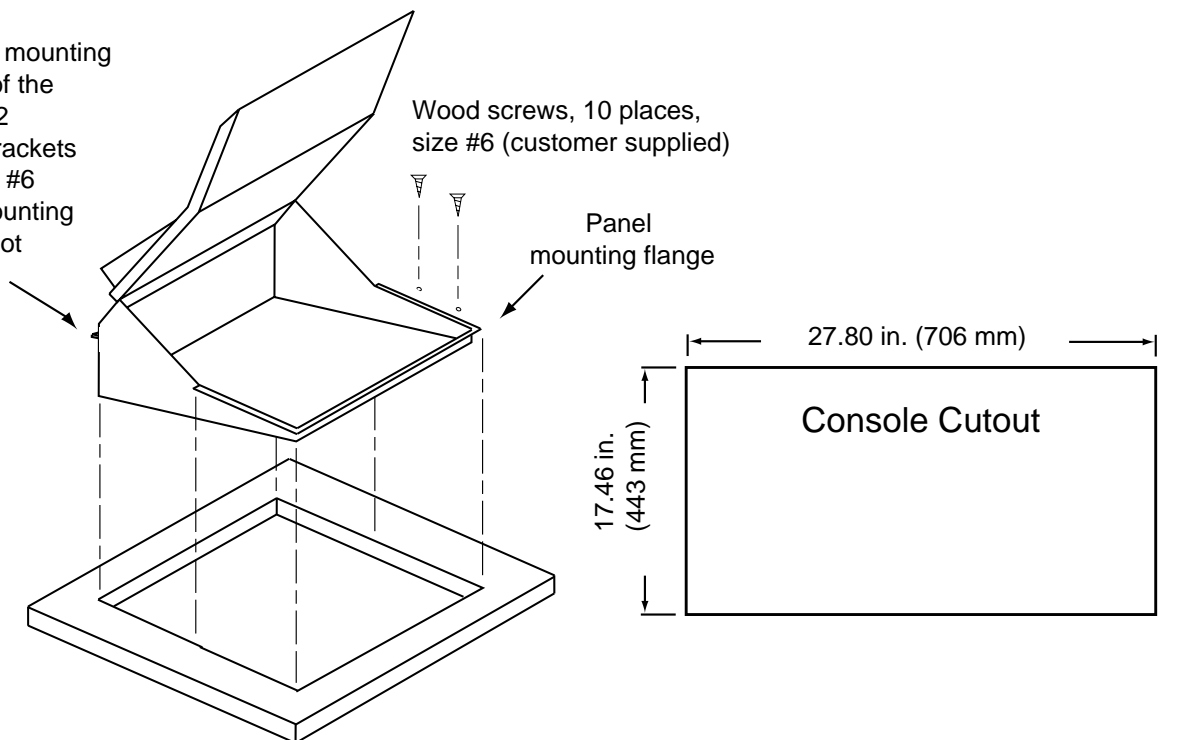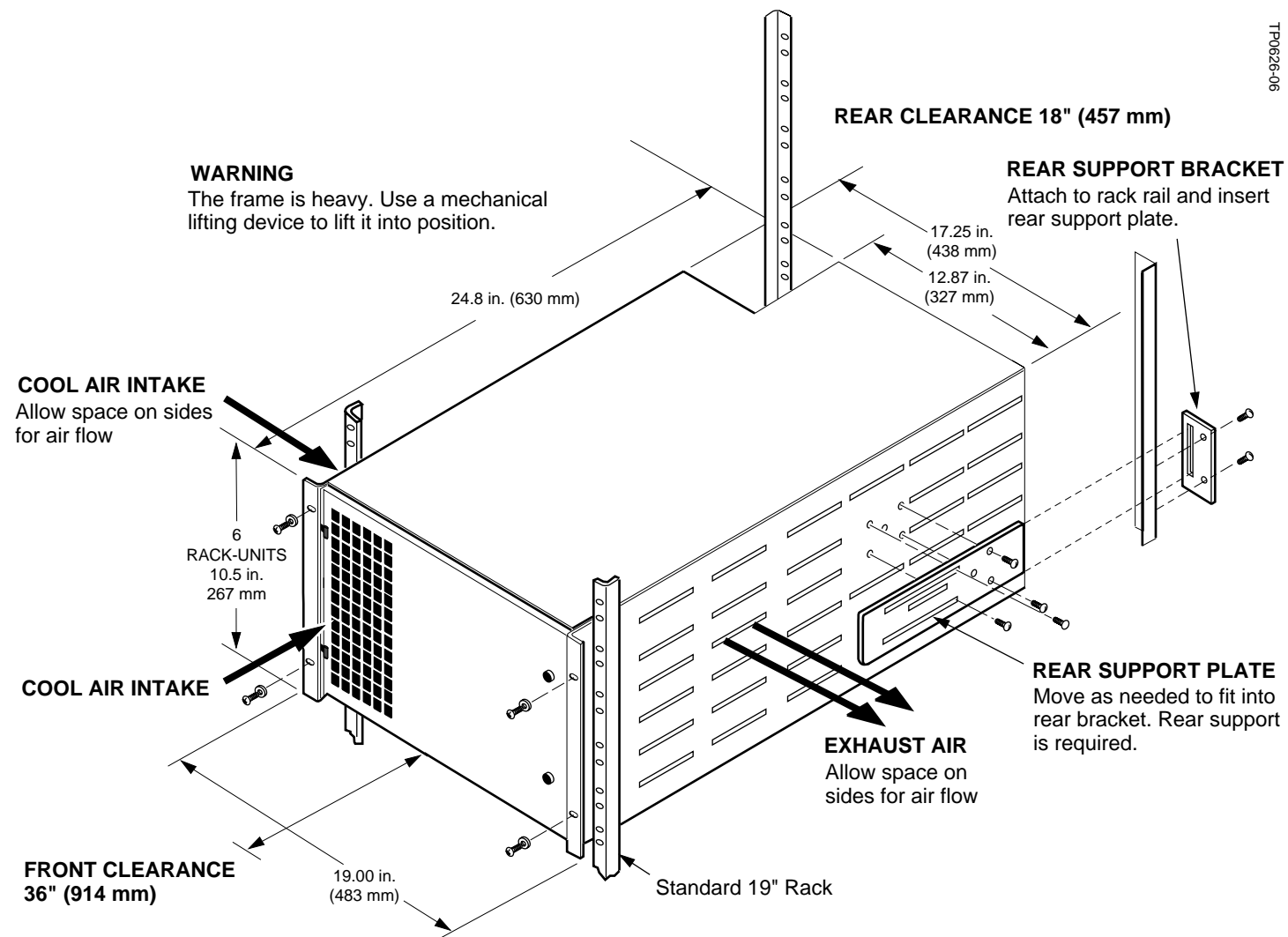
Important: Install the mounting brackets on the rear of the panel using four #6-32 screws. Secure the brackets to the desk using four #6 wood screws. The mounting flange at the front is not capable of supporting the entire panel.

Wood screws, 10 places, size #6 (customer supplied)

Panel mounting flange

27.80 in. (706 mm)

17.46 in.
(443 mm)

Console Cutout

Signal Processor Frame Installation

The Signal Processor Frame mounts in a standard 19-inch wide equipment rack and requires 6 rack units of vertical space. Front and rear support are required. Leave some open space at the front of the frame for module removal, at the back of the frame for cabling, and at the sides for cooling air flow.

TP0626-06

REAR CLEARANCE 18" (457 mm)

REAR SUPPORT BRACKET
Attach to rack rail and insert rear support plate.

WARNING
The frame is heavy. Use a mechanical lifting device to lift it into position.

17.25 in. (438 mm)

12.87 in. (327 mm)

24.8 in. (630 mm)

COOL AIR INTAKE
Allow space on sides for air flow

6 RACK-UNITS 10.5 in. 267 mm

COOL AIR INTAKE

REAR SUPPORT PLATE
Move as needed to fit into rear bracket. Rear support is required.

EXHAUST AIR
Allow space on sides for air flow

FRONT CLEARANCE 36" (914 mm)

19.00 in. (483 mm)

Standard 19" Rack

Typical System

Character Generator

Still Store

Component Digital Video Tape Recorder (VTR)

Analog Video Tape Recorder (VTR)

Camera

Analog Key Out | Analog Video Out

Component Digital Video Out | Component Digital Key Out

Component Digital Video Out

Analog Video Out

Analog Video Out

A to D

A to D

A to D

A to D

Clean Feed Out

Effects Send Return Path | Key Out

DPM-700 DIGITAL PICTURE MANIPULATOR

CH. 1 In

CH. 2 In

Periph Port

Null Modem Cable (054714-03)

Aux 1 or Send Key | Aux 2 or Send Video

Primary Inputs

DPM Port

Analog Program Out

Program Monitor

Digital Program Out

MODEL 1200 SWITCHER

Program Key Out

Clean Feed Out

Digital Record VTR

EXT. REF. INPUT LOOPING

Analog PVW Out

Preview Monitor

EXT REF IN

External Reference
Analog Color Black

Model 1200

Keyboard