

# **WALLSTAND**

**MODEL S107**

**INSTALLATION INSTRUCTIONS**

**06087 REV E**

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

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**INSTALLATION, SERVICE, AND OPERATING MANUALTEXT REVISION ISTORY**

Revision	Description	Release Date
P	Initial release to separate S107 from S108 manual for UL certification	June 2011
A	Corrections and updates for UL modifications	2011
B	Pg 8 – Added “With Cover”; Pg 7 – Added “Install the wall bracket cover (see figure 2)”; Update graphic for Figure 1; Added Figure 2.	March 2014
C	Pg. 7 – Added instruction and warning for adjustment of vertical lock	May 2014
D	Removed Section 1.2; Replaced Section 1.1 with Symbols Table	November, 2016
E	Updated address to Niles, IL; Added Intended Use, Attenuation, and Cleaning information to page 4.	June, 2017

## 1.0 DEFINITIONS AND SPECIFICATIONS

### 1.1 Definition of symbols used on the equipment

Symbol Legends	
Symbol	Definition
	Date of manufacture
	Manufacturer
	Serial Number
	Reference Number (Model/Part Number)
	Keep Dry
	NOTE This symbol represents Information that assists the user of the manual in the performance of a task. It may provide the user with better methods of conducting the task, or it may point out conditions that could cause the system to fail to operate properly.
 CAUTION	Points out special procedures, or precautions, that personnel must follow to avoid equipment damage.
 WARNING	Identifies situations or actions that may affect patient or user safety. Disregarding a warning could result in patient or user injury.
	TYPE B APPLIED PART This symbol indicates equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage currents and reliability of the protective earth connection (if present).
	This symbol indicates an Electro Sensitive Device is present which must be carefully handled to prevent damage to the device.
	ELECTRIC SHOCK HAZARD WARNING This symbol indicates an electric shock hazard.
	DANGER VOLTAGE This symbol indicates hazards arising from dangerous voltages.
	DIRECT CURRENT This symbol indicates a direct current source.
	PROTECTIVE EARTH TERMINATIONS This symbol indicates protective earth terminations in device.

## 1.2 General Precautions



### **WARNING**

All of the components used with the Wallstand (generator, bucky, etc.) shall comply with UL 60601 standards.



### **NOTE**

The UL Classification does not include X-Ray Generator, Collimator, X-ray Tube, or Image Detector.

### **Intended Use**

This is an x-ray wallstand, a mechanical device intended to hold and position an X-ray image receptor during a radiographic procedures.



### **Attenuation**

All included components between the patient and image receptor have been certified to comply with 21 CFR Chapter 1 Subchapter J (§1020.30). For any such components added to the system it is the responsibility of the installer to ensure compliance.

### **Cleaning**

The manufacturer recommends disinfection of the equipment between uses for any surfaces that may come in contact with the patient during a radiographic procedure.

1.3 Specification Summary Table

<b>SPECIFICATION SUMMARY TABLE</b>																	
Electrical Ratings	None																
Maximum Safe Working Load	50 lbs (22.5 kg)																
Environmental Conditions	<p>Temperature range for:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Transport and Storage</td> <td style="width: 50%;">Use</td> </tr> <tr> <td>-40° F to +158° F</td> <td>+50° F to +104° F</td> </tr> <tr> <td>-40° C to +70° C</td> <td>+10° C to +40° C</td> </tr> </table> <p>Relative Humidity Limits for:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Transport and Storage</td> <td style="width: 50%;">Use</td> </tr> <tr> <td>10% to 100%</td> <td>30% to 75%</td> </tr> </table> <p>Atmospheric pressure range for:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Transport and Storage</td> <td style="width: 50%;">Use</td> </tr> <tr> <td>14.67 inHg to 31.30 inHg</td> <td>20.67 inHg to 31.30 inHg</td> </tr> <tr> <td>500 hPa to 1060 hPa</td> <td>700 hPa to 1060 hPa</td> </tr> </table>	Transport and Storage	Use	-40° F to +158° F	+50° F to +104° F	-40° C to +70° C	+10° C to +40° C	Transport and Storage	Use	10% to 100%	30% to 75%	Transport and Storage	Use	14.67 inHg to 31.30 inHg	20.67 inHg to 31.30 inHg	500 hPa to 1060 hPa	700 hPa to 1060 hPa
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Information regarding potential EMC interference and advice for avoidance	<ul style="list-style-type: none"> <li>Mains power quality should be that of a typical commercial or hospital environment</li> <li>Power frequency magnetic fields should be at levels characteristic of a typical location in a commercial or hospital environment</li> </ul>																
Degree of protection against harmful ingress of water	IPXO/Ordinary																
Degree of protection against electric shock	Class I, Type B Applied Parts 																
Applicable Standards	<p>This X-ray Wallholder complies with the following regulatory and design standards:</p> <ul style="list-style-type: none"> <li>UL 60601-1</li> <li>CAN/CSA C22.2 NO601.1</li> <li>IEC60601-2-32:1994</li> <li>CSA C22.2 No. 601.2.32-98</li> </ul>																
Safety Label																	
<p><b>Note:</b> The UL Classification does not include the Image Receptor</p>																	
<p>Equipment not suitable for use with flammable anesthetic mixture with air or with oxygen or nitrous oxide.</p>																	

## 2.0 COMPONENT LIST (as received)

- (1) Column Carton: includes column, counter weight, slide, pulleys
- (1) Accessory Carton:
  - (1) Instruction manual
  - (1) Floor Plate
  - (1) Wall Bracket (Flush or Offset application) with cover
  - (2) Upper and lower mounting channels for film cabinet or bucky
  - (1) Mechanical lock assembly
  - (1) Brake handle support bracket
  - (2) Column side covers
  - (1) Column cap
  - Trim Weights
  - (1) Chin rest kit
  - Wire ties

## 3.0 ASSEMBLY NOTES

- 1) Most required fasteners will be found attached to the part they are used on.
- 2) Unpack and inspect all parts prior to assembly.



### WARNING

- |   |
|---|
| <ul style="list-style-type: none"><li>3) To avoid possible injury, do not insert fingers or hands into counter weight access openings on sides of column.</li></ul> |
|---|

## 4.0 WALLSTAND ASSEMBLY GUIDE

(See figure 1)

- (1) Attach the floor plate to the column.
- (2) Attach the ground cable from the lower mounting channel (shipped factory-connected) to one of two tapped holes on the rear of column at the base. The other will be occupied by the incoming ground cable (factory-connected). Dress the channel cable straight up the column and secure with a zip tie to the plastic base provided on the back of the column approximately 3.5 ft up.
- (3a) For offset applications, attach the wall bracket to the back side of the column.
- (3b) For flush applications, the wall bracket slips into the column from the top.
- (4) Stand the column up and attach it to the wall and floor with appropriate fasteners (not supplied).
- (5) Mount the lock assembly to the slide with the handle to either the left or the right.

**ADJUSTMENT OF VERTICAL LOCK:** The lock comes pre-adjusted from the factory to provide a lock force of between 10-25 pounds of lock force. After the manual vertical lock is installed, and if adjustments need to be made, turning the 7/16" hex head bolt counter-clockwise increases the vertical lock force and turning it clockwise decreases the lock force.

**WARNING:** Do not over-tighten the 7/16" hex head bolt of the vertical lock. Doing so can cause premature failure in the retaining rings and bushings, which are critical to the lock's function. When properly adjusted, the lock should produce between 10-25 pounds of lock force and when unlocked, should not drag or chatter. The lock force should be measured and verified to be with the specified range prior to putting the unit into service.

- (6) Mount the lower (a) and upper (b) film cabinet mounting channels.
- (7) Install the brake handle support bracket.
- (8) Mount the film cabinet.
- (9) Install the wall bracket cover (see figure 2)
- (10) Install the column cap.
- (11) Insert trim weights as required.
- (12) Mount the column side covers.

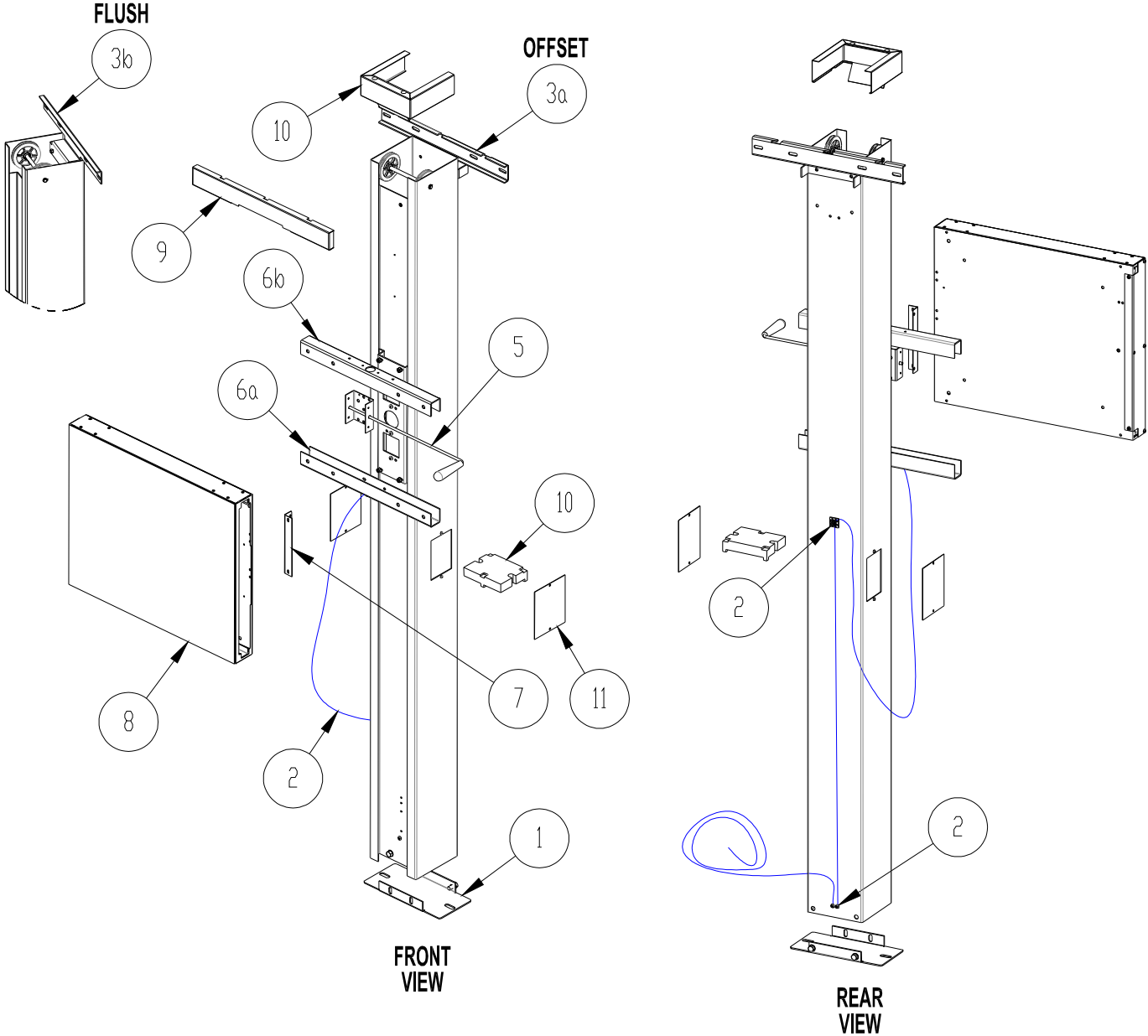


Figure 1

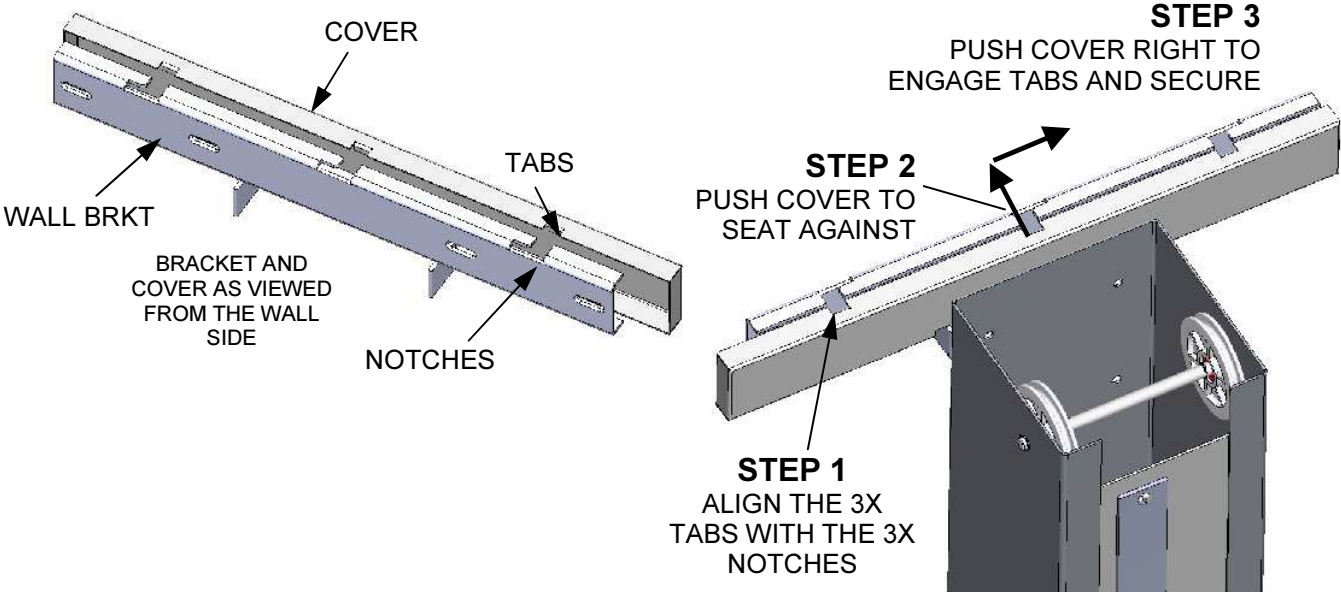


Figure 2: Installing the Wall Bracket Cover