

# SERVICE MANUAL

## Bed Locator From Hill-Rom



**Product No. P786F00/P2016**

**For Parts or Technical Assistance**  
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# ***Bed Locator Service Manual***

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## **Revisions**

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# Chapter 1

## Introduction

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## Purpose

This manual provides requirements for the Bed Locator normal operation and maintenance. It also includes a parts list (in chapter 5) for ordering replacement components.

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## Audience

This manual is intended for use by only facility-authorized maintenance personnel. Use of information contained in chapters 2 through 6 requires a thorough understanding of the Hill-Rom Bed Locator systems and components. Failure to observe this restriction can result in severe injury to people and serious damage to equipment.

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## Organization

This manual contains seven chapters.

### Chapter 1: Introduction

In addition to a brief description of this service manual, chapter 1 also provides a product overview.

### Chapter 2: Troubleshooting Procedures

Repair analysis procedures are contained in this chapter. These procedures are used to gather information, identify the maintenance need, and verify the effectiveness of the repair.

### Chapter 3: Theory of Operation

This chapter describes the application of the mechanical and electrical systems employed in this product.

### Chapter 4: Removal, Replacement, and Adjustment Procedures

Chapter 4 contains the detailed maintenance procedures determined necessary in chapter 2.

**Chapter 5: Parts List**

This chapter contains Hill-Rom's warranty, part-ordering procedure, and illustrated parts lists.

**Chapter 6: General Procedures**

Cleaning, preventive maintenance, and other general procedures are described in this chapter.

**Chapter 7: Accessories**

There are no accessories for the Bed Locator.

## Typographical Conventions

This manual contains different typefaces and icons designed to improve readability and increase understanding of its content. Note the following examples:


- Standard text—used for regular information.
- **Boldface text**—emphasizes a word or phrase.
- **NOTE:**—sets apart special information or important instruction clarification.
- The symbol below highlights a WARNING or CAUTION:

**Figure 1-1. Warning and Caution Symbol**



- A WARNING identifies situations or actions that may affect patient or user safety. Disregarding a warning could result in patient or user injury.
- A CAUTION points out special procedures or precautions that personnel must follow to avoid equipment damage.
- The symbol below highlights an electrical shock hazard WARNING:

**NOTE:**

Labels present on the Bed Locator reflecting the  symbol are instructing you to see accompanying documents.

**Figure 1-2. Electrical Shock Hazard Warning**



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## Introduction

### Overview

The Bed Locator locates the patient bed while providing an effective method to protect walls from accidental damage. The Bed Locator may provide electrical and communication services for patient care depending on options purchased. Electrical outlets, along with telephone and two-way communication connections, provide necessary connections for use with electrical devices.

### Bed Locator Electrical Devices

The Bed Locator may be equipped with the following electrical devices:

#### Critical Branch Power Outlets

The critical branch power outlets provide an electrical service source for devices that require no more than 125 volts. These outlets are connected to the critical branch circuit. Power to these outlets will continue though normal power service is interrupted.

#### Normal Power Outlets

The normal power outlets provide an electrical service source for devices that require no more than 125 volts. Power to these outlets will be interrupted or terminated if a power failure occurs within the building.

#### Dedicated Power Bed Outlet

The dedicated power bed outlet provides an electrical service source for patient beds that require no more than 125 volts. The Bed Locator, when installed with the Integris Patient Light provides a precautionary system that prevents any items attached to the bed from damaging the Integris Patient Light. When an object pushes up against the lower portion of the Integris Patient Light, whether due to bed attachments or other objects, the circuit to the dedicated power outlet is interrupted until the Integris Patient Light is returned to its original position.



#### **WARNING:**

Only an electric bed shall be plugged into the designated power bed outlet. No other equipment shall be connected to the power outlet due to the potential hazard of power interruption. Personal injury or



equipment damage could occur.

### **SideCom® Communication System Receptacle**

The SideCom® Communication System receptacle provides a connection for this communication device on Hill-Rom® beds.

### **Telephone Cable Connector**

The telephone cable connector is used to connect a telephone cable to local phone service.

### **Night Light**

The night light provides the patient and staff with an indirect light source for low ambient room lighting. The night light is rated at 125 volts and 7 watts.

### **Control Pendant Socket**

The control pendant socket provides a connection for the Control Pendant which provides patient lighting control.

### **Low Voltage Controller**

The low voltage controller allows low voltage control of lighting. The low voltage controller is rated at 120 volts, 244 volts, or 277 volts.

The horizontal orientation of the outlets and connectors on each side of the Bed Locator provides a convenient access for patients and staff.

Removable access panels and trim strips on the Bed Locator are available in a variety of colors.

## **Operating Precautions**

### **Positioning the Bed**



#### **WARNING:**

Remove all obstacles away from the front of the Bed Locator that may interfere with bed positioning. Failure to do so could result in personal injury or equipment damage.

The Bed Locator is designed to operate with Hill-Rom® beds between the heights of 9.3" (23.5 cm) and 27.8" (70.8 cm).

1. Align the center of the bed with the center of the Bed Locator.
2. Slowly guide the head portion of the bed toward the Bed Locator until the bed bumpers contact the center panel on the Bed Locator.
3. Connect the necessary equipment to the Bed Locator.

### **Removing the Bed**

1. Disconnect all devices from the Bed Locator that are connected to the bed.
2. Slowly pull the bed away from the Bed Locator.

### **Connecting the SideCom® Communication System Cable**

#### **NOTE:**

Only SideCom® Communication System cables are to be used with Hill-Rom® beds.

1. Securely connect the female SideCom® Communication System cable connector to the SideCom® Communication System interface box located on the side of the bed.
2. Remove the white plug covering the SideCom® Communication System receptacle on the Bed Locator.
3. Securely connect the male end of the SideCom® Communication System cable to the receptacle located on the Bed Locator.

### **Disconnecting the SideCom® Communication System Cable**

1. Remove the SideCom® Communication System cable from the receptacle located on the Bed Locator.
2. Replace the white cover that originally covered the SideCom® Communication System receptacle on the Bed Locator.

### **Connecting the Telephone Cable**

The telephone connector located on the Bed Locator represents the type of telephone connector typically used in your country. The telephone cable connects to the Bed Locator the same way as other phone cables in your area.

## **Disconnecting the Telephone Cable**

The telephone connector located on the Bed Locator represents the type of telephone connector typically used in your country. The telephone cable disconnects from the Bed Locator the same way as other phone cables in your area.

## **Connecting the Electrical Cords**

The electrical outlets located on the Bed Locator represent the type of electrical outlets typically used in your country. Electrical cords connect to the Bed Locator electrical outlets the same way as other electrical cords in your area.

### **NOTE:**

Ensure the electrical cords are fully inserted into the outlets.

## **Disconnecting the Electrical Cords**

The electrical outlets located on the Bed Locator represent the type of electrical outlets typically used in your country. Electrical cords disconnect from the Bed Locator electrical outlets the same way as other electrical cords in your area.

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## Specifications

### Physical Description

See table 1-1 on page 1-10 for Bed Locator specifications.

**Table 1-1. Specifications**

Feature	Dimension
Width	50.0" (127.0 cm)
Height	19.1" (48.5 cm)
Depth (access panel)	2.4" (6.1 cm)
Approximate weight	50.0 lb (22.7 kg)

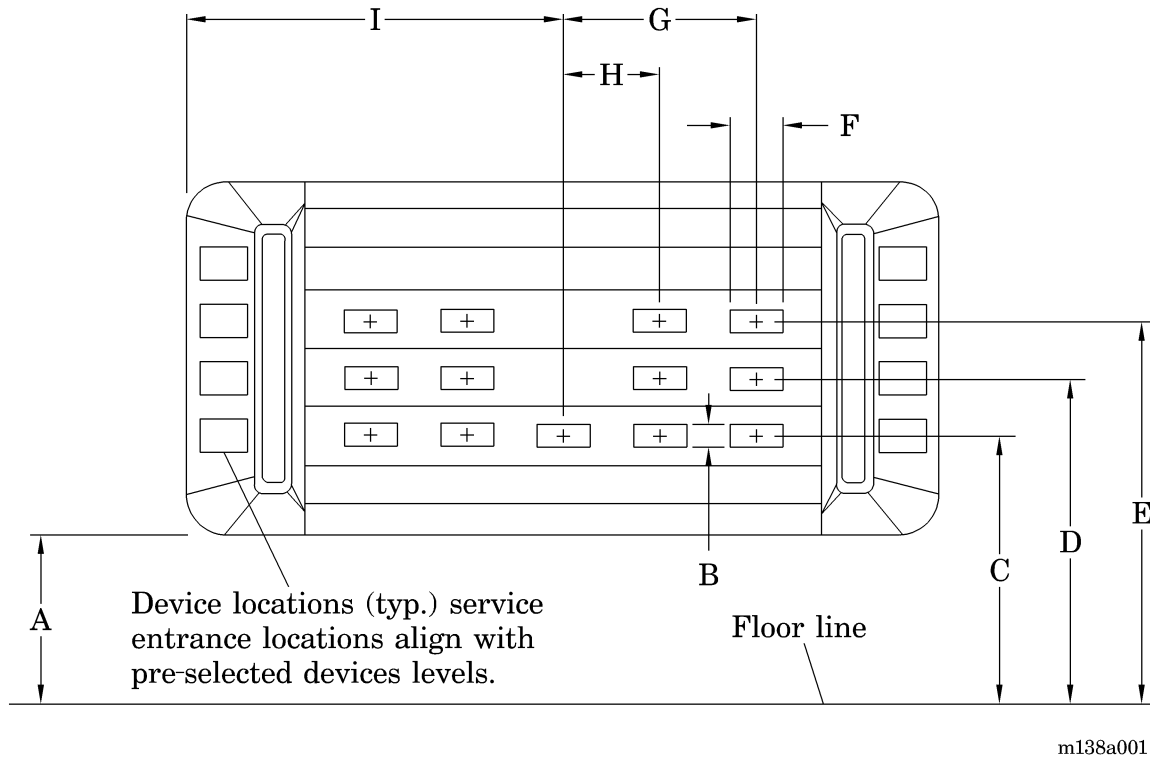
See table 1-2 on page 1-10 for Bed Locator physical dimensions.

**Table 1-2. Physical Dimensions**

Symbol	Dimension
A	8.8" (21.6 cm)
B	2.0" (5.1 cm)
C	14.3" (36.2 cm)
D	17.0" (43.2 cm)
E	19.8" (50.2 cm)
F	3.0" (7.6 cm)
G	13" (33 cm)
H	7.0" (17.8 cm)
I	25.0" (63.4 cm)

See figure 1-3 on page 1-11 for Bed Locator dimension locations.

**Figure 1-3. Physical Dimensions**



**Table 1-3. Optional Equipment and Devices**

Description	Specification
Chart light	Switched 7 watt 120V bulb
Night light	Switched (Single Pole Single Throw (SPST) or 3-way) or Continuous burn 7 watt 120 V bulb
Low voltage controller	120V AC 240V AC 277V AC

**Table 1-4. Provisions for Options**

Description	Specification
Patient phone provision	Standard telephone jack

## Electrical Description

**Table 1-5. Electrical Specifications**

Description	Specification
Voltage	109-125V AC at 50-60 Hz
Wire—standard and emergency power	Type AWM/MTW Stranded copper 600V Flame retardant Heat resistant
Wire—power circuits/lighting circuits	12 AWG (color-coded according to wiring diagram).
Wire—ground conductor	12 AWG Stranded copper Green
Wire—raceway ground conductor	10 AWG to terminate at the service chase ground bus.
Grounding and bonding	Each receptacle must have a grounding conductor, terminated at the raceway grounding post, next to the service chase.

**Table 1-6. Receptacle Specifications**

Description	Specification
Hospital-grade receptacle	NEMA 5-15R or 5-20R Hospital-grade is indicated by a green dot on the face of the receptacle.
Single phase	2 wires plus a ground
Voltage	125V AC
Amperage	15 or 20 amps
Receptacle color	Ivory = standard duplex power red = critical power Black = locking single Orange = isolated ground

## Regulations, Standards, and Codes

### USA

#### Sections and Units

Category guide designation = QQXX.

#### Isolated Power Wall Modules

Category guide designation = KEXS.

### Canada (CUL)

#### Sections and Units

Category guide designation = QQXX7.

#### Isolated Power Wall Modules

Category guide designation = KEXS7.

## Operating Environment

The Bed Locator is designed to operate in the following environments:

### Atmosphere

- Temperature: 50°F (10°C) to 104° F (70°C)
- Relative humidity: 20% to 85%

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## **Model Identification**

See table 1-7 on page 1-14 for Bed Locator model identification.

**Table 1-7. Model Identification**

<b>Model Number</b>	<b>Description</b>
P786F00	Bed Locator
P201604	Stand Alone Bed Locator
P201605	Integrated Bed Locator



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## Safety Tips

**WARNING:**

Only facility-authorized maintenance personnel should troubleshoot the Bed Locator. Troubleshooting by unauthorized personnel could result in personal injury or equipment damage.

**WARNING:**

Only facility-authorized maintenance personnel should perform preventive maintenance on the Bed Locator. Preventive maintenance performed by unauthorized personnel could result in personal injury or equipment damage.

**WARNING:**

Adhere to the “Infection Control Policies and Procedures” outlined in the *Safety Coordinator Reference Guide*. Failure to do so could result in the spread of infection.

**WARNING:**

Follow the product manufacturer’s instructions. Failure to do so could result in personal injury or equipment damage.

**WARNING:**

Unplug the Bed Locator from its power source before servicing. Use only fuses with the same rating as the fuse specified in the wiring schematic. Observe all normal electrical precautions when replacing the fuse.

**WARNING:**

Establish policies and procedures to train and educate your staff on the hazards associated with electrical equipment. Disconnect the Bed Locator from its power source before cleaning or servicing. Failure to do so could result in personal injury or equipment damage.

**WARNING:**

Periodically check the ground continuity and combined leakage current of appliances and devices used with this product. Failure to do so could result in personal injury or equipment damage.

**WARNING:**

The patient bed should not interfere with other wall mounted equipment when positioned with the Bed Locator. Failure to do so could result in personal injury or equipment damage.

**SHOCK HAZARD:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the circuit breaker. Failure to follow this procedure could cause personal injury or damage to the equipment.

**WARNING:**

Do not place items containing liquid on the Bed Locator. Liquids can cause unintentional damage and electrical shock.

**WARNING:**

Only qualified and authorized service personnel may remove or replace the electrical devices on the Bed Locator. Personal injury or equipment damage could occur.

**SHOCK HAZARD:**

Unplug the unit from its power source. Failure to do so could result in personal injury or equipment damage.

**SHOCK HAZARD:**

Do not expose the unit to excessive moisture. Personal injury or equipment damage could occur.

**SHOCK HAZARD:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the

circuit breaker. Failure to follow this procedure could cause serious personal injury and damage to the equipment.

**SHOCK HAZARD:**

Use care when checking live voltages. Do not touch live terminals, wires, and ground. Failure to use caution will cause serious electrical shock injury.

**CAUTION:**

Do not use harsh cleaners, solvents, or detergents. Equipment damage could occur.

**CAUTION:**

Do not plug any equipment or combination of equipment into any of the Bed Locator outlets that requires more than 20 amps or 125 volts of power at each outlet. Equipment damage could occur.

**CAUTION:**

Do not use silicone-based lubricants. Equipment damage could occur.

**CAUTION:**

The electrical schematic in figure 3-1 on page 3-3 reflects a typical wiring diagram for the Bed Locator. This diagram may not reflect the actual wiring configuration of your unit. Refer to the electrical schematic that accompanied your Bed Locator for specific electrical connection information about your unit. Failure to do so could result in equipment damage.

## Product Symbol Definition




For Bed Locator symbol definitions, see table 1-8 on page 1-18.

**Table 1-8. Product Symbol Definition**

Symbol		Description
<div>CKT 5</div> <div>CKT E1</div>		Circuit identification

## Warning and Caution Labels

Table 1-9. Warning and Caution Labels

Symbol	Description
	CAUTION: Consult accompanying documents
	Dangerous voltage
	Outlet for bed use only. Do not plug any life support equipment into this outlet. Power to the bed outlet may be accidentally interrupted when used with the Integris® Patient Light or First Impression® Headwall System by Hill-Rom.

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## **Glossary of Terms**

**Accessible metal part**

Any metal part of the unit that may be touched without a tool.

# Chapter 2

## *Troubleshooting Procedures*

# 2

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**NOTES:**

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**2**



## Getting Started



### WARNING:

Only facility-authorized maintenance personnel should troubleshoot the Bed Locator. Troubleshooting by unauthorized personnel could result in personal injury or equipment damage.

Begin each procedure in this chapter with step 1. Follow the sequence outlined (each step assumes the previous step has been completed). In each step, the normal operation of the product can be confirmed by answering **Yes** or **No** to the statement. Your response will lead to another step in the procedure, a repair analysis procedure (RAP), or a component replacement. If more than one component is listed, replace them in the given order.

Start with **Initial Actions** to begin gathering information about the problem.

Perform the **Function Checks** to isolate or identify a problem and to verify the repair after completing each corrective action (replacing or adjusting a part, seating a connector, etc.).

Perform the **Final Actions** after the Function Checks to verify the repair.

If troubleshooting procedures do not isolate the problem, call Hill-Rom Technical Support at (800) 445-3720 for assistance.

# 2

## Initial Actions

Use Initial Actions to gather information from operators concerning problems with the Bed Locator. Note symptoms or other information concerning the problem that the operator describes. This information helps identify the probable cause.

1. Someone who can explain the problem is available.

**Yes    No**



→ Go to “Function Checks” on page 2-4.

2. Ask that person to demonstrate or explain the problem. The problem can be duplicated.

**Yes    No**



→ Go to “Function Checks” on page 2-4.

3. The problem is a result of improper operator action.

**Yes**    **No**  
 ↓        → Go to “Function Checks” on page 2-4.

4. See “Safety Tips” on page 1-15. Perform the “Function Checks” on page 2-4 to ensure proper operation of the Bed Locator.

# 2

## Function Checks

### NOTE:

The following steps address all options available on the Bed Locator. The Bed Locator being serviced may or may not have all of the options addressed in the list. If the unit you are servicing does not have the option described in a particular step, move to the next step.



### SHOCK HAZARD:

All function checks must be performed by a qualified service technician. Failure to observe all electrical precautions detailed in chapter 1 can result in injury.

1. Initial Actions have been performed.

**Yes**    **No**  
 ↓        → Go to “Initial Actions” on page 2-3.

2. An outlet or connector on the Bed Locator does not function properly (i.e., loss of power).

**Yes**    **No**  
 ↓        → Go to step 4.

### NOTE:

If a bed outlet does not function properly, ensure that nothing is obstructing the Integris Patient Light. See “Electrical Specifications” on page 1-12 for function information of the bed mains outlet.

3. The equipment typically plugged into the outlet or connector functions properly in another outlet or connector.

**Yes**    **No**  
 ↓        → The equipment may be defective. Refer to equipment’s service documentation for troubleshooting instructions.

4. The night light illuminates properly.

**Yes**    **No**  
 ↓        → Go to RAP 2.2.

5. The lights controlled by the low voltage controller operate properly.  
**Yes**   **No**  
↓       → Go to RAP 2.1.
6. The duplex receptacle is operative.  
**Yes**   **No**  
↓       → Go to RAP 2.3.
7. The bed receptacle is operative.  
**Yes**   **No**  
↓       → Go to RAP 2.4.
8. Everything appears to be working properly. Go to “Final Actions” on page 2-5. If you need further help, call Hill-Rom Technical Support at (800) 445-3720 for assistance.

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## Final Actions

1. Complete the required preventive maintenance procedures. See “Preventive Maintenance Checklist” on page 6-7.
2. Complete all required administration tasks.

## 2.1 Low Voltage Malfunction

2

1. The light bulb in the controlled light receptacle is burned out.

**Yes    No**



→ Go to step 3.

2. Replace the bulb (refer to procedure 4.9). If this solves the problem, go to “Final Actions” on page 2-5. Otherwise, go to step 3.



### **WARNING:**

Unplug the Bed Locator from its power source before servicing. Use only fuses with the same rating as the fuse specified in the wiring schematic. Observe all normal electrical precautions when replacing the fuse.

3. The fuse for the low voltage controller is in good condition and has not opened.

**Yes    No**



→ Replace the fuse.

4. Check the circuit power. Refer to the electrical schematic and installation instructions that accompanied your unit. The cause for power loss is detected in the circuit.

**Yes    No**



→ Call Hill-Rom Technical Support at (800) 445-3720 for assistance.

5. Correct the cause for power loss. Then, go to “Final Actions” on page 2-5.

## 2.2 Night Light Malfunction

1. Power is being conducted to the night light receptacle.

**Yes    No**

↓        → Go to step 4..

2. Replace the light bulb. See “Night Light Bulb” on page 4-22. The replacement bulb illuminates properly.

**Yes    No**

↓        → Go to step 4..

3. Go to “Final Actions” on page 2-5.



### **SHOCK HAZARD:**

Unplug the Bed Locator from its power source. Failure to do so could result in personal injury or equipment damage.

4. Check the circuit power. Refer to the electrical schematic and installation instructions that accompanied your unit to determine where power has been interrupted to the night light receptacle. The source of power interruption has been detected.

**Yes    No**

↓        → If no power interruptions can be detected, call Hill-Rom  
Technical Support at (800) 445-3720 for assistance.

5. Correct the power interruption. Then, go to “Final Actions” on page 2-5.

# 2

## 2.3 Duplex Electrical Receptacle—Standard or Critical Branch Is Inoperative



### SHOCK HAZARD:

Use care when checking live voltages. Do not touch live terminals, wires, and ground. Failure to use caution will cause serious electrical shock injury.

1. The building circuit breaker is in the ON position.

**Yes    No**



→ Reset the breaker to the ON position.

2. A voltage reading of 109 to 125V AC is available between the lug and the terminal of the breaker.

**Yes    No**



→ Replace the circuit breaker per the manufacturer's instruction.

3. A voltage reading of 109 to 125V AC is available at the wire terminals on the receptacle.

**Yes    No**



→ Repair or replace the wiring between the circuit breaker and the receptacle.

4. The voltage reads from 109 to 125V AC between the receptacle's short slot and the ground terminal. Also, the voltage reads from 109 to 125V AC between the receptacle's short slot and the long slot.

**Yes    No**



→ Replace the receptacle. See "Bed Receptacle" on page 4-9.

This solves the problem.

**Yes    No**



→ Call Hill-Rom Technical Support at (800) 445-3720.

5. Go to "Final Actions" on page 2-5.

## 2.4 Bed Receptacle or Patient Light—Limit Switch Is Inoperative



### SHOCK HAZARD:

Use care when checking live voltages. Do not touch live terminals, wires, and ground. Failure to use caution will cause serious electrical shock injury.

1. The building circuit breaker is in the ON position.

**Yes    No**



→ Reset the circuit breaker to the ON position.

2. Testing shows 109 to 125V AC between the terminal and the lug of the circuit breaker.

**Yes    No**



→ Replace the circuit breaker per the manufacturer's instructions.

3. Testing shows 109 to 125V AC between the terminals on the bed receptacle.

**Yes    No**



→ Repair or replace the wires between the circuit breaker and the bed receptacle.

4. The voltage reads from 109 to 125V AC between the short slot and the long slot of the bed receptacle. The voltage also reads from 109 to 125V AC between the short slot and ground on the bed receptacle.

**Yes    No**



→ Replace the bed receptacle. See "Bed Receptacle" on page 4-9.

5. The bed receptacle indicator light is on.

**Yes    No**



→ Replace the bed receptacle indicator. See "Bed Receptacle" on page 4-9.

6. Applying upward pressure to the read light turns voltage off at the bed receptacle, and releasing the upward pressure restores voltage at the bed receptacle.

**Yes    No**



→ Replace the inoperative limit switches after testing for continuity in the closed position, and for infinity in the open position. See the *Integris® Patient Light Service Manual*.

This solves the problem.

**Yes**    **No**



→ Call Hill-Rom Technical Support at (800) 445-3720.

7. Go to “Final Actions” on page 2-5.



# ***Chapter 3***

## ***Theory of Operation***

---

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Theory of Operation .....	3 - 7

**NOTES:**

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## Electrical System

**WARNING:**

Figure 3-1 on page 3-3 represents a typical electrical system wiring diagram for the Bed Locator. Refer to the electrical schematic that accompanied your Bed Locator for the actual wiring diagram. Failure to do so could result in personal injury or equipment damage.

**NOTE:**

Critical branch and normal power can be reversed. It will be determined by what source is feeding the lighting circuit.

**Figure 3-1. Typical Electric System Wiring Diagram**

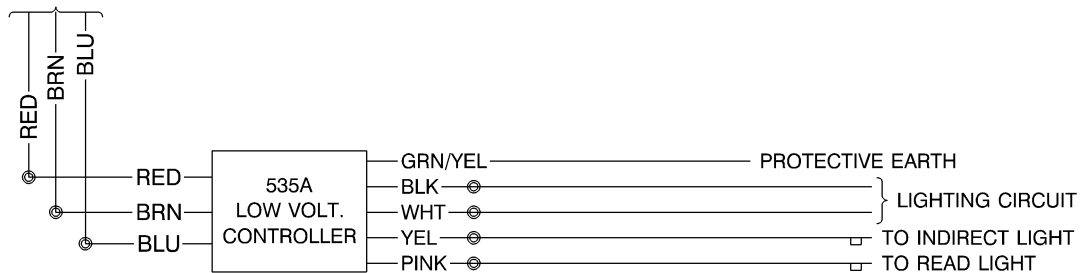
**3**

[Refer to FO 3-1 at the rear of this manual.](#)

**WARNING:**

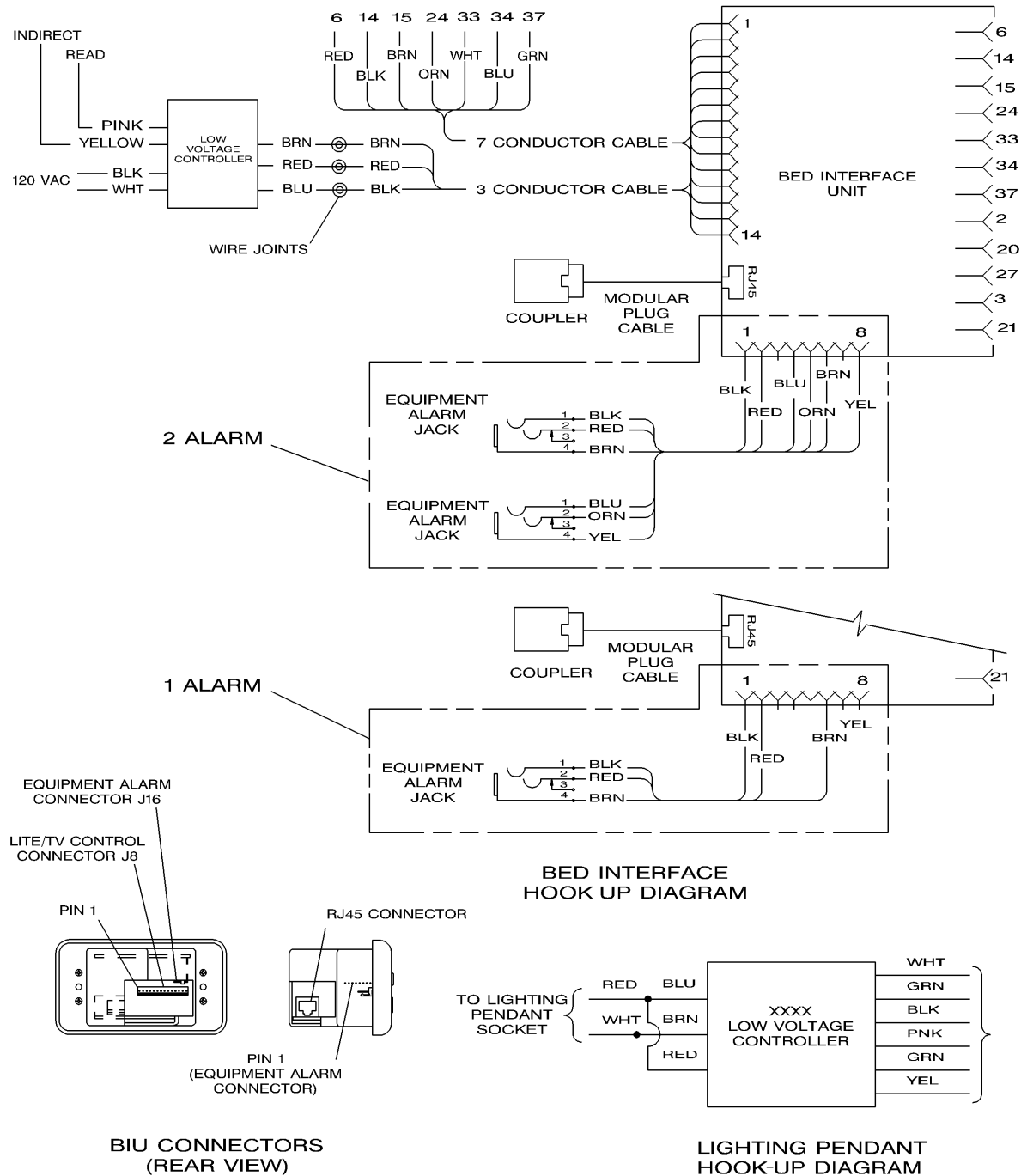
Figure 3-2 on page 3-4 represents a typical wiring diagram of the low voltage controller on the Bed Locator. Refer to the electrical schematic that accompanied your Bed Locator for the actual wiring diagram. Failure to do so could result in personal injury or equipment damage.

**Figure 3-2. Typical Low Voltage Controller Wiring Diagram**



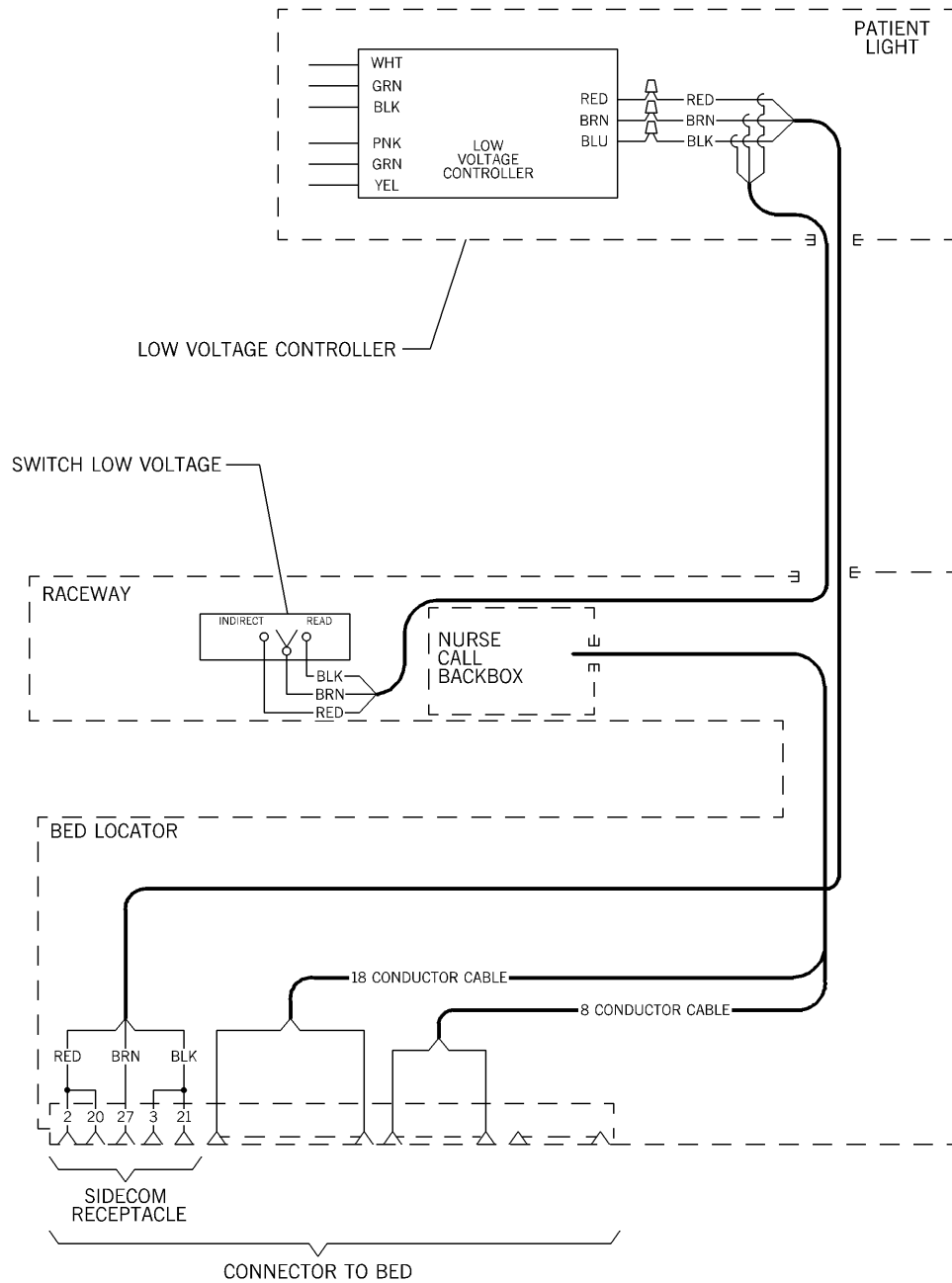
m138a064

**Figure 3-3. Bed Locator Wiring Diagram (P2016 Models Only)**



m138\_056

**Figure 3-4. Low Voltage Wiring Diagram (P2016 Models Only)**



m138\_057

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## **Theory of Operation**

There is no Theory of Operation for the Bed Locator. For general electrical information, see “Electrical Specifications” on page 1-12.

**NOTES:**

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**3**



# **Chapter 4**

## ***Removal, Replacement, and Adjustment Procedures***

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## 4.1 Electrical Device Cover Plate

Tools required: Phillips head screwdriver

### Removal



#### **SHOCK HAZARD:**

Only qualified and authorized service personnel may remove or replace the cover plate on the Bed Locator. Personal injury or equipment damage could occur.

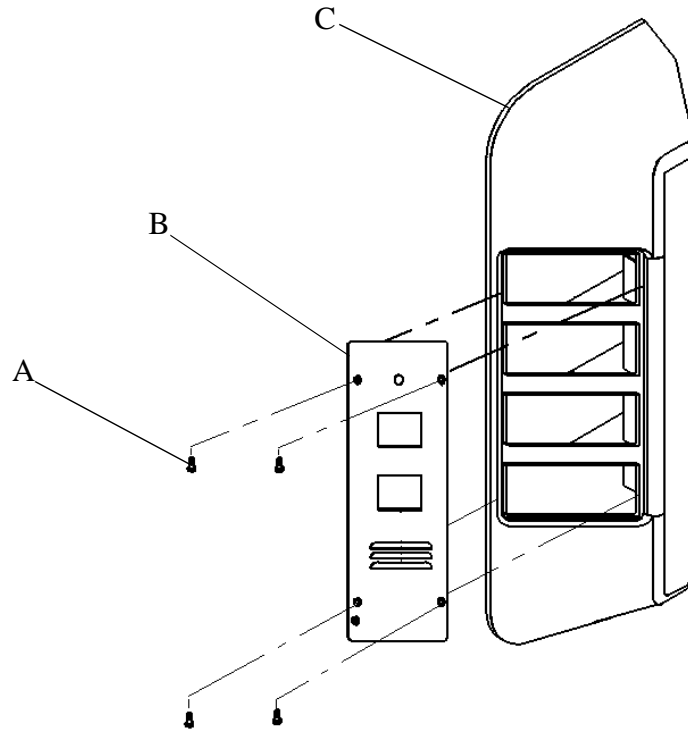


#### **WARNING:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the circuit breaker. Failure to follow this procedure could cause serious personal injury and damage to the equipment.

1. Locate the involved building standard or critical branch circuit breaker panel, and set the involved circuit breaker to OFF.
2. Lock out and tag out the circuit breaker.
3. Using a phillips head screwdriver, remove the four screws (A) that secure the cover plate (B) to the Bed Locator assembly (C) to expose the electrical devices (see figure 4-1 on page 4-4).

**Figure 4-1. Electrical Device Cover Plate Removal**



m138\_033

4. Disconnect the components fastened to the cover plate (B) including the protective earth grounding wire and any options present.

## Replacement



### **SHOCK HAZARD:**

The protective earth must be reconnected as originally assembled. Failure to connect the protective earth may present a shock hazard to the user, patient, or both.

Reverse the removal procedure to replace the cover plate (B) on the Bed Locator assembly (C).

## Adjustment

No adjustment is required for the Bed Locator cover plate.

## 4.2 Electrical Device

Tools required: Phillips head screwdriver

### Removal

**WARNING:**

Only qualified and authorized service personnel may remove or replace the electrical devices on the Bed Locator. Personal injury or equipment damage could occur.

1. Follow steps 1 through 3 of the section “Electrical Device Cover Plate” on page 4-3.

**CAUTION:**

The electrical schematic in figure 3-1 on page 3-3 reflects a typical wiring diagram for the Bed Locator. This diagram may not reflect the actual wiring configuration of your unit. Refer to the electrical schematic that accompanied your Bed Locator for specific electrical connection information about your unit. Failure to do so could result in equipment damage.

2. Remove the defective electrical device from the Bed Locator assembly.

### Replacement

**SHOCK HAZARD:**

Refer to the electrical schematic that accompanied your Bed Locator for actual electrical connection information. Failure to do so could result in personal injury or equipment damage.

1. Reverse the removal procedure to replace the electrical device.
2. Replace the device cover plate by performing steps 1 through 3 of the section “Electrical Device Cover Plate” on page 4-3 in reverse order.
3. Ensure the replacement device has electrical power. If no power is present, verify proper electrical connections were made in accordance with the electrical schematic that accompanied your Bed Locator.

### 4.3 Low Voltage Controller (P2016 Models Only)

Tools required:   Adjustable wrench  
                          Screwdriver  
                          Digital multimeter

#### Removal

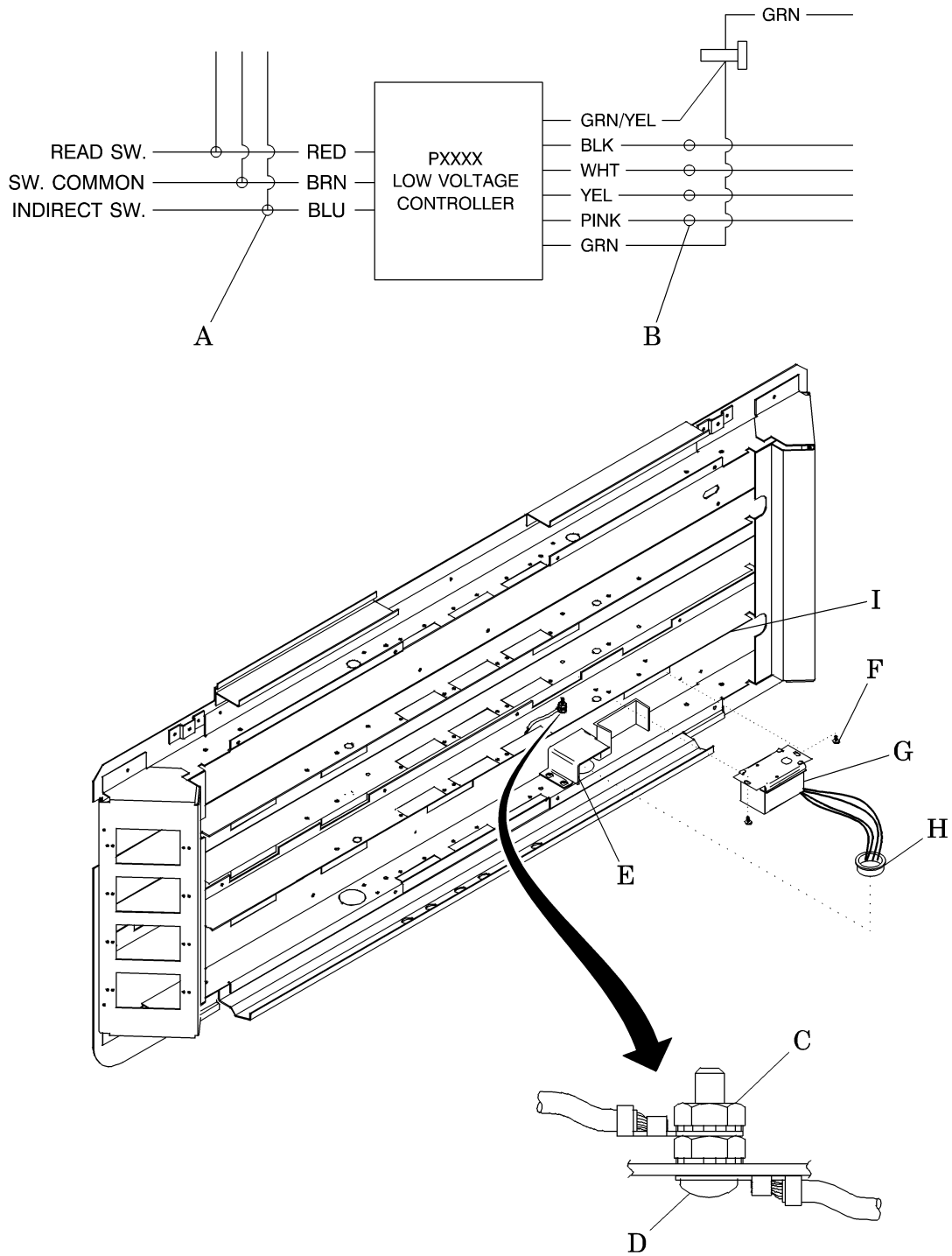


#### **SHOCK HAZARD:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the circuit breaker. Failure to follow this procedure could cause personal injury or damage to the equipment.

1. Locate the involved building standard or critical branch circuit breaker panel, and set the involved circuit breaker to OFF.
2. Lock out and tag out the circuit breaker.
3. Remove the bed locator access panel (refer to procedure 4.8).
4. Note the routing of the wiring.
5. Remove the three wire nuts (A) from the wire joints in the raceway that go to the bed switches (see figure 4-2 on page 4-7).
6. Separate the three wire joints.
7. Remove the four wire nuts (B) from the wire joints on the high voltage side of the controller.
8. Separate the four wire joints.
9. Using an adjustable wrench, remove the nut (C) from the ground stud (D), and remove the two ground wires.
10. Remove the snap bushing (H) from the backplate assembly (I).
11. Using a screwdriver, remove the low voltage controller mounting screws (F) and the low voltage controller (G) from the backplate assembly (I).

**Figure 4-2. Low Voltage Controller Removal**



m138a065

## Replacement

### NOTE:

Before replacing the low voltage controller, check the following resistances between the output leads:

- 120V AC 500 ohms, plus or minus 100 ohms
  - 240V AC 1800 ohms, plus or minus 100 ohms
  - 277V AC 2500 ohms, plus or minus 100 ohms
1. Align the low voltage controller (G) with the mounting screw holes on the backplate assembly (I) and the barrier (E).
  2. Install the mounting screws (F).
  3. Insert the two ground wires onto the ground stud (D), and tighten the nut (C).
  4. Connect the four wires to the high voltage side of the low voltage controller (G).
  5. Install the four wire nuts (B).
  6. Connect the three wires that go to the bed switches.
  7. Install the three wire nuts (A).
  8. Replace the bed locator access panel (refer to procedure 4.8).
  9. Remove the lockout and tagout from the building circuit breaker, and set the building circuit breaker back to the ON position.
  10. Test the low voltage controller (G) for power availability.

## Adjustment

No adjustment is required for the Bed Locator low voltage controller.



## 4.4 Bed Receptacle

Tools required:   Screwdriver  
                          Phillips head screwdriver

### Removal

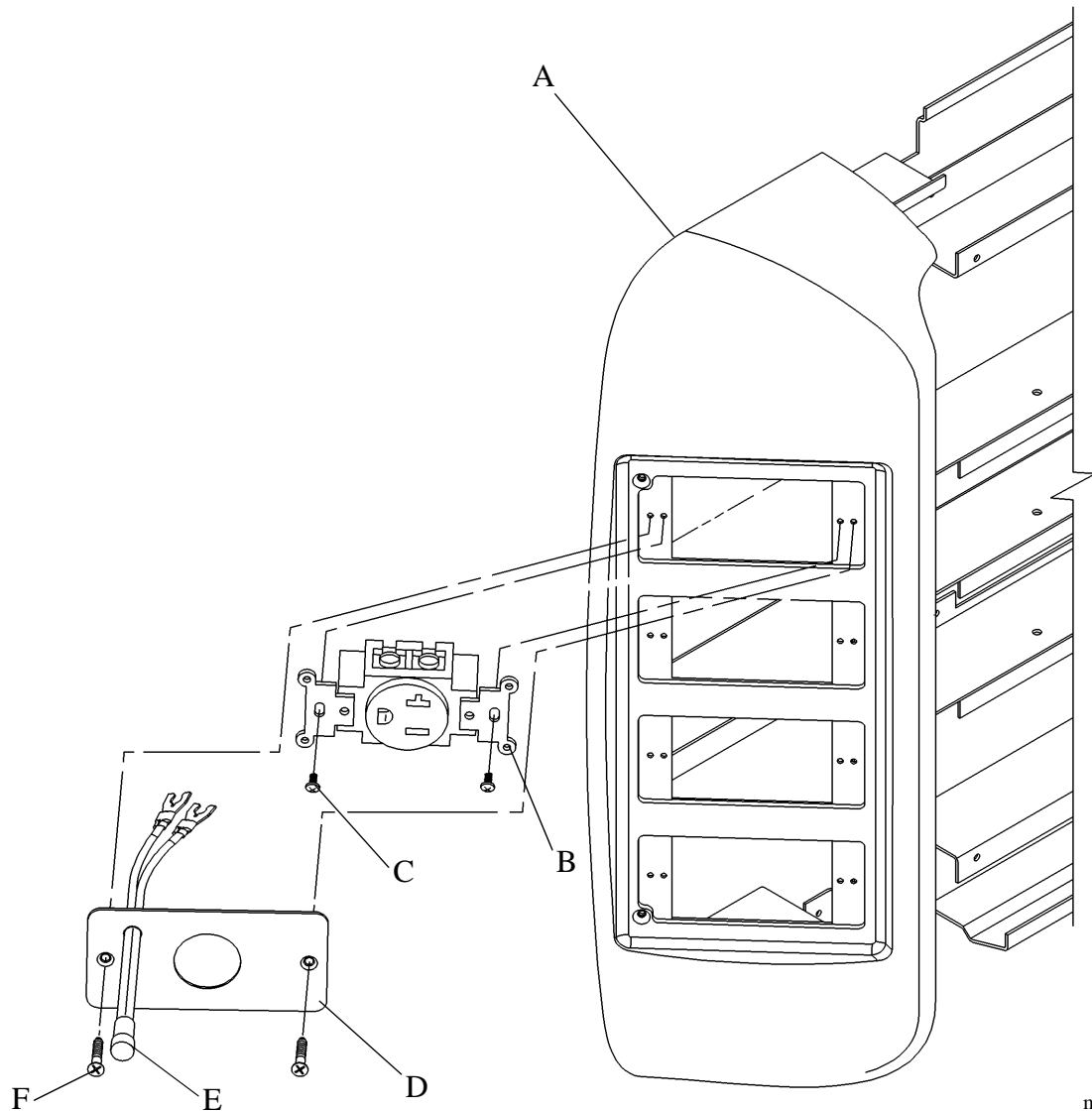


#### **SHOCK HAZARD:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the circuit breaker. Failure to follow this procedure could cause serious personal injury and damage to the equipment.

1. Locate the involved building standard or critical branch circuit breaker panel, and set the involved circuit breaker to OFF.
2. Lock out and tag out the circuit breaker.
3. Using a phillips head screwdriver, remove the faceplate screws (F) and the faceplate (D) (see figure 4-3 on page 4-10).

**Figure 4-3. Bed Receptacle Removal**



m138\_055

4. Remove the faceplate (D) from the raceway (A).
5. Leave the indicator (E) in position on the faceplate (D).
6. Using a screwdriver, loosen the receptacle screws (C) until the receptacles (B) can be lifted away from the device plate.
7. Note and record the positions of the color-coded wires.
8. Loosen the screws holding the wires.

9. Remove the power supply and indicator wires from the receptacle (B).

## Replacement

1. Place the indicator and power supply wires onto the receptacle terminal screws.
2. Tighten the terminal screws.
3. Align the receptacle (B) with the retaining holes in the raceway (A).
4. Install and tighten the two receptacle screws (C) into the device plate.
5. Insert the faceplate (D) and indicator (E) onto the device plate.
6. Install and tighten the two faceplate screws (F) to secure the faceplate (D) on the device plate.
7. Set the circuit breaker to the ON position, test the receptacle (B) for power, and remove the out-of-service tags.
8. Test the receptacle for availability of power. See “Bed Receptacle or Patient Light—Limit Switch Is Inoperative” on page 2-9.

## Adjustment

No adjustment is required for the Bed Locator receptacle assembly.

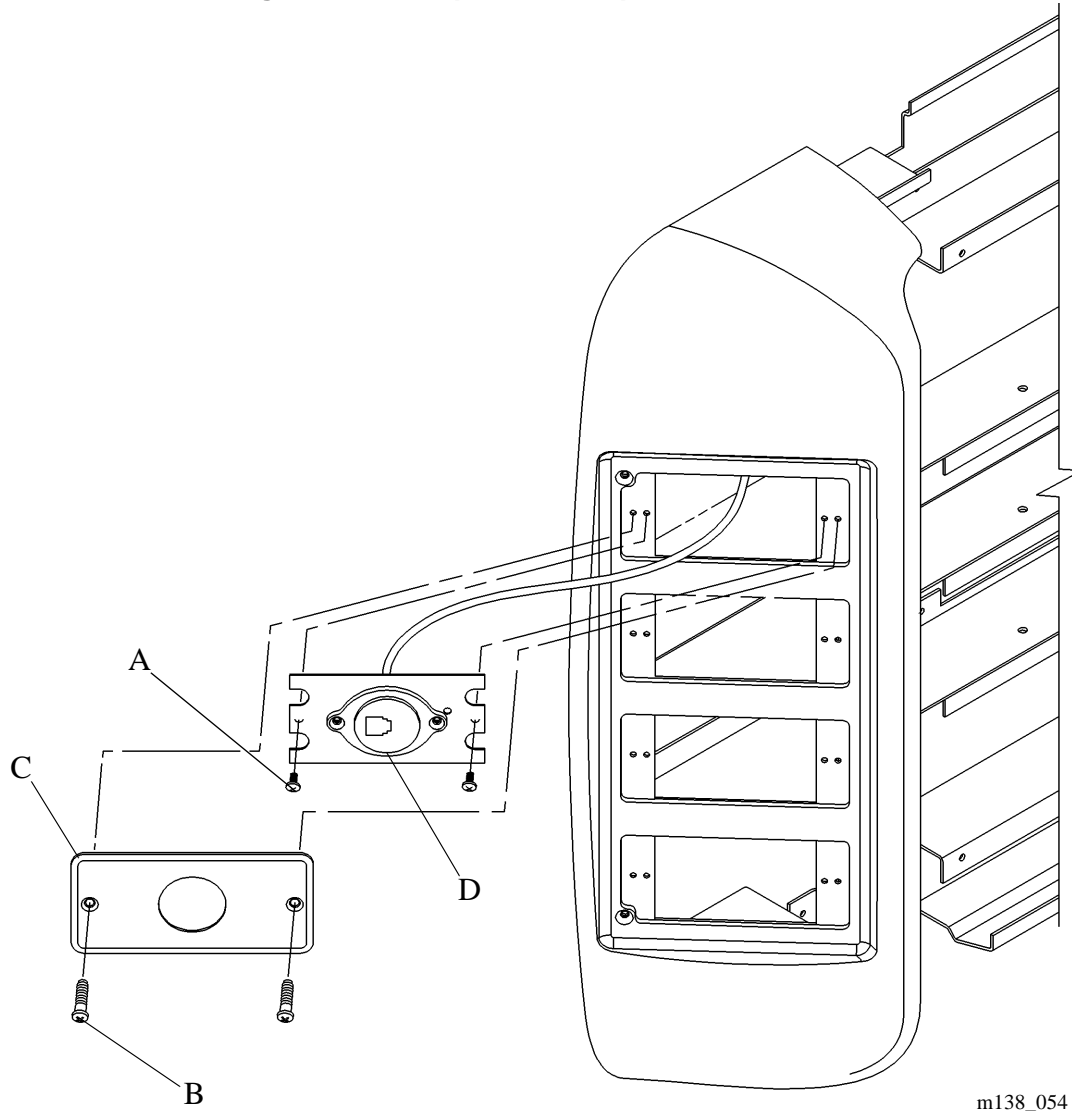
## 4.5 Telephone Receptacle

Tools required: Phillips head screwdriver

### Removal

1. Using a phillips head screwdriver, remove the screws (B) and the patient phone faceplate (C) from the raceway (see figure 4-4 on page 4-12).

**Figure 4-4. Telephone Receptacle Removal**



m138\_054

2. Using a phillips head screwdriver, remove the phone plate screws (A) until the phone plate will lift away from the raceway.

3. Remove the telephone interface connector from the back of the modular phone receptacle (D).

## **Replacement**

1. Install the telephone interface connector into the back of the modular phone receptacle (D).
2. Install the modular phone receptacle (D) into the phone plate with screws (A).
3. Install the patient phone faceplate (C) and screws (B) on the device plate.
4. Check the telephone interface connector for correct phone function.

## **Adjustment**

No adjustment is required for the Bed Locator telephone receptacle assembly.

## 4.6 Bumpers

Tools required: Phillips head screwdriver

### Removal



**WARNING:**

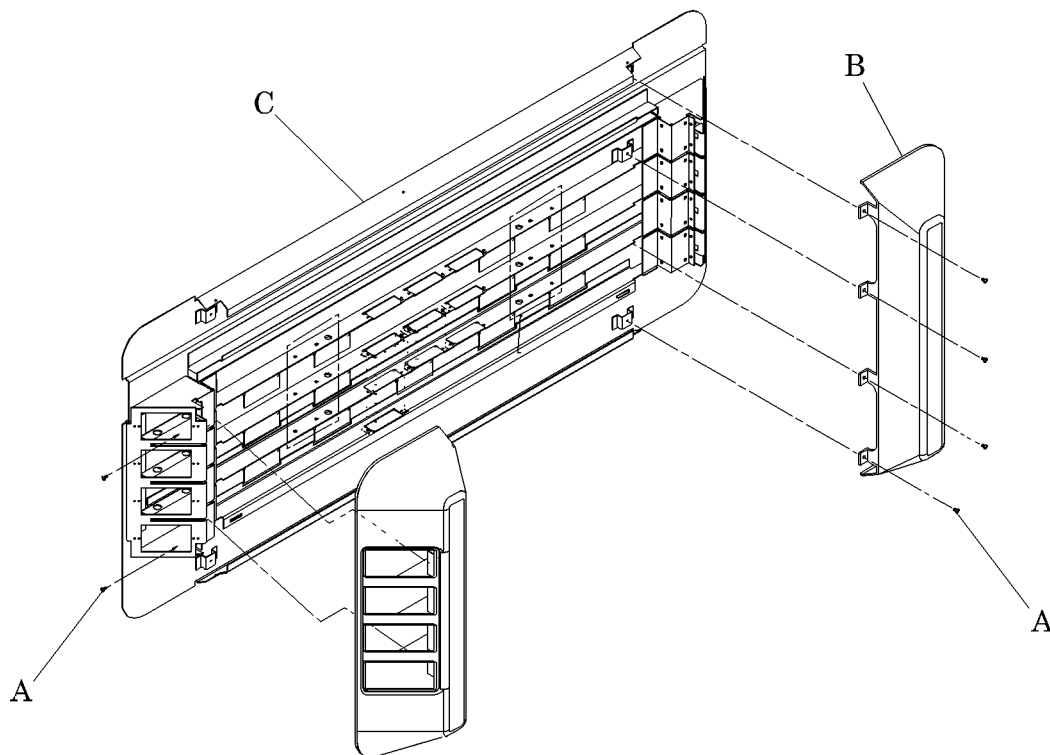
Only qualified and authorized service personnel may remove or replace the bumpers on the Bed Locator. Personal injury or equipment damage could occur.



**SHOCK HAZARD:**

Unplug the Bed Locator from its power source. Failure to do so could result in personal injury or equipment damage.

1. Unplug the Bed Locator from its power source.
2. Using a phillips head screwdriver, remove the six screws (A) securing the bumper (B) to the Bed Locator assembly (C) on both sides of the unit (see figure 4-5 on page 4-15).

**Figure 4-5. Bumper Assembly**

m138\_045

**4**

## Replacement

1. Reverse the removal procedure to replace the Bed Locator bumper assembly.
2. Ensure the Bed Locator is connected to an appropriate power source.

## Adjustment

No adjustment is required for the Bed Locator bumper assembly.

## 4.7 Bed Locator Access Panel Cover (P786F00 Models Only)

Tools required: Phillips head screwdriver

### Removal



#### **WARNING:**

Only qualified and authorized service personnel may remove or replace the access panel on the Bed Locator. Personal injury or equipment damage could occur.



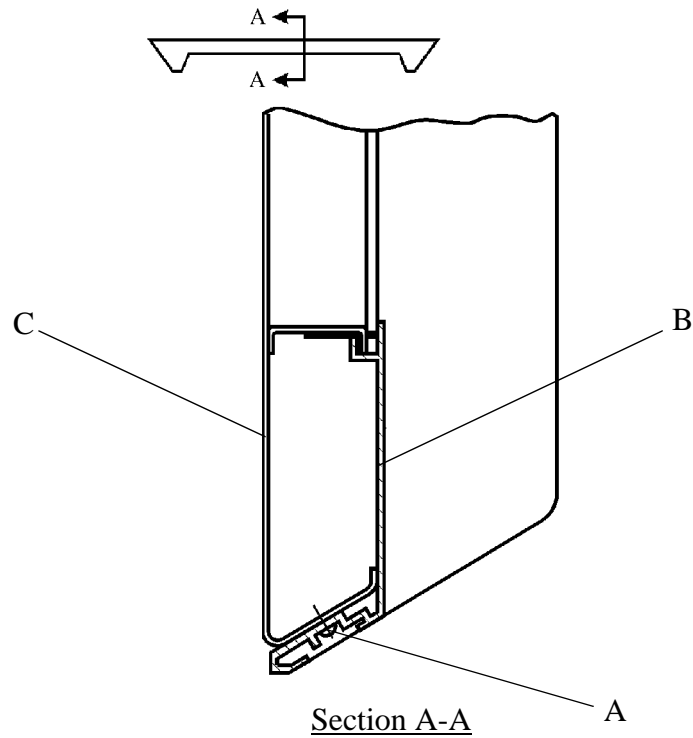
#### **SHOCK HAZARD:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the circuit breaker. Failure to follow this procedure could cause serious personal injury and damage to the equipment.

1. Locate the involved building standard or critical branch circuit breaker panel, and set the involved circuit breaker to OFF.
2. Lock out and tag out the circuit breaker.
3. Using a phillips head screwdriver, remove the screws (A) that secure the lower extrusion cover (B) to the Bed Locator assembly (C) (see figure 4-6 on page 4-17).



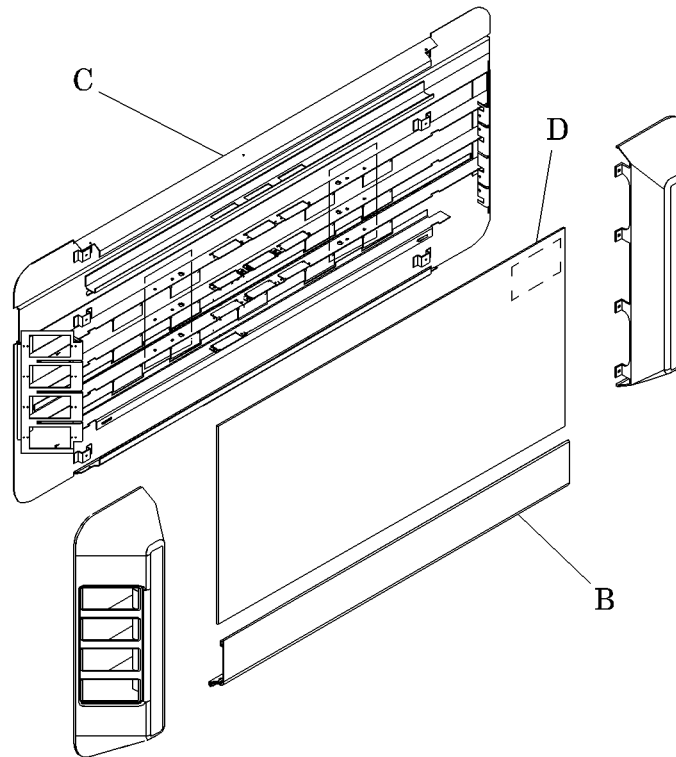
**Figure 4-6. Access Panel Replacement**



m138\_009

4. Remove the lower extrusion cover (B) from the Bed Locator assembly (C) (see figure 4.7 on page 4-16).

**Figure 4-7. Access Panel Assembly**



m138\_047

5. Remove the access panel (D) from the Bed Locator assembly (C).

## **Replacement**

1. Reverse the removal procedure to replace the access panel.
2. Connect the Bed Locator to an appropriate power source.
3. Ensure all functions work properly.

## **Adjustment**

No adjustment is required for the Bed Locator access panel assembly.

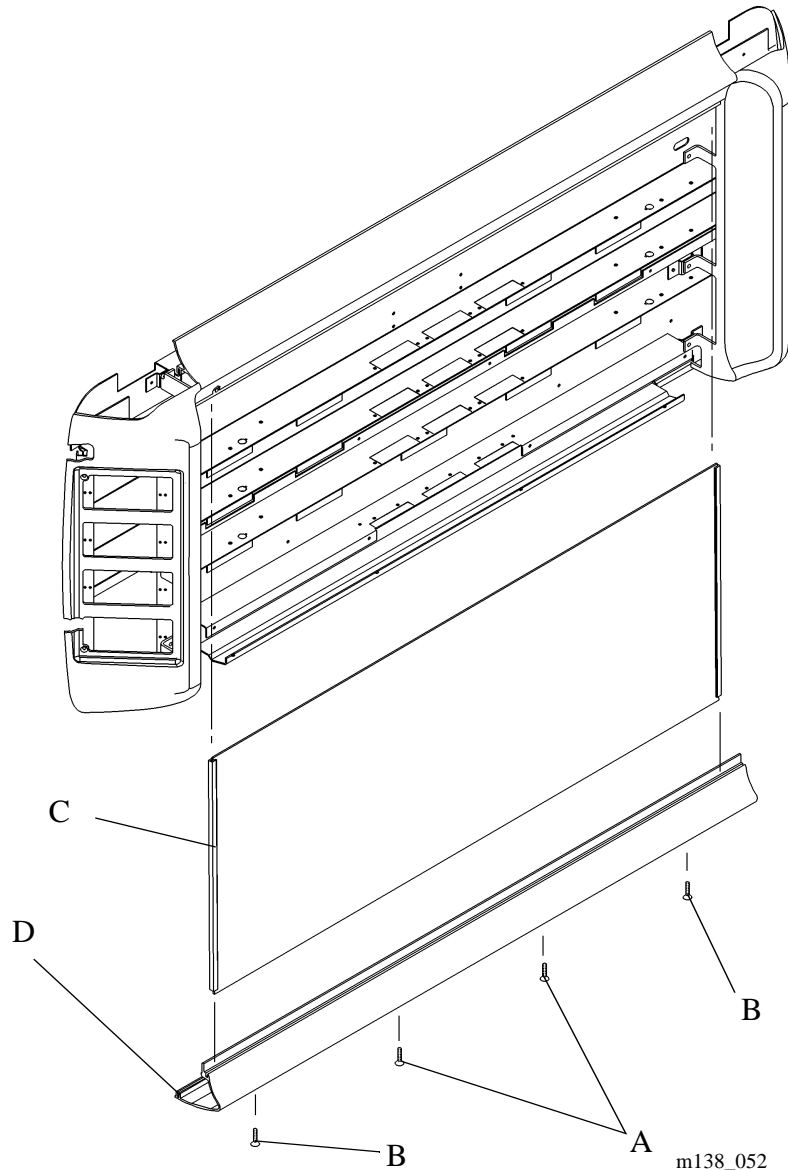
## 4.8 Bed Locator Access Panel Cover (P2016 Models Only)

Tools required: Phillips head screwdriver

### Removal

1. Using a phillips head screwdriver, remove the center two lower rail screws (A) (see figure 4-8 on page 4-20).

**Figure 4-8. Bed Locator Access Panel Cover (P2016 Models Only)**



2. Slightly loosen the two remaining lower rail attaching screws (B).

3. Hold the access panel cover (C), and lower the rail (D) in place with one hand while removing the two loosened screws (B) with the other hand.
4. Remove the lower rail (D) and the access panel cover (C).

## Replacement

1. Place the access panel cover (C) and lower rail (D) in place on the bed locator, and hold them in place with one hand.
2. Install the two outer screws (B), and tighten them enough to hold the panel and rail in place.
3. Install the center two screws (A), and tighten all of the lower rail attaching screws.

## Adjustment

No adjustment is required for the Bed Locator access panel assembly.

## 4.9 Night Light Bulb

Tools required: Phillips head screwdriver

### Removal



#### **WARNING:**

Only qualified and authorized service personnel may remove or replace electrical devices on the Bed Locator. Personal injury or equipment damage could occur.



#### **SHOCK HAZARD:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the circuit breaker. Failure to follow this procedure could cause serious personal injury and damage to the equipment.

1. Locate the involved building standard or critical branch circuit breaker panel, and set the involved circuit breaker to OFF.
2. Lock out and tag out the circuit breaker.



#### **WARNING:**

Do not touch any part of the bulb socket while power is connected to the Bed Locator. Observe all normal electrical safety precautions when replacing the light bulb. Failure to do so could result in personal injury or equipment damage.

3. Follow steps 1 through 3 of the section “Electrical Device Cover Plate” on page 4-3.
4. Remove the defective light bulb from the light bulb socket.

### Replacement

1. Install the new light bulb into the bulb socket.
2. Ensure the bulb is fully seated in the socket.
3. Follow steps 1 through 3 of the section “Electrical Device Cover Plate” on page 4-3 in reverse order.
4. Check the replacement bulb for proper operation.

5. If the night light does not come on, verify the bulb is fully seated into the receptacle.

## **Adjustment**

No adjustment is required for the Bed Locator night light bulb assembly.

## 4.10 Fuse

Tools required: Phillips head screwdriver

### Removal



#### **WARNING:**

Only qualified and authorized service personnel may remove or replace electrical devices on the Bed Locator. Personal injury or equipment damage could occur.

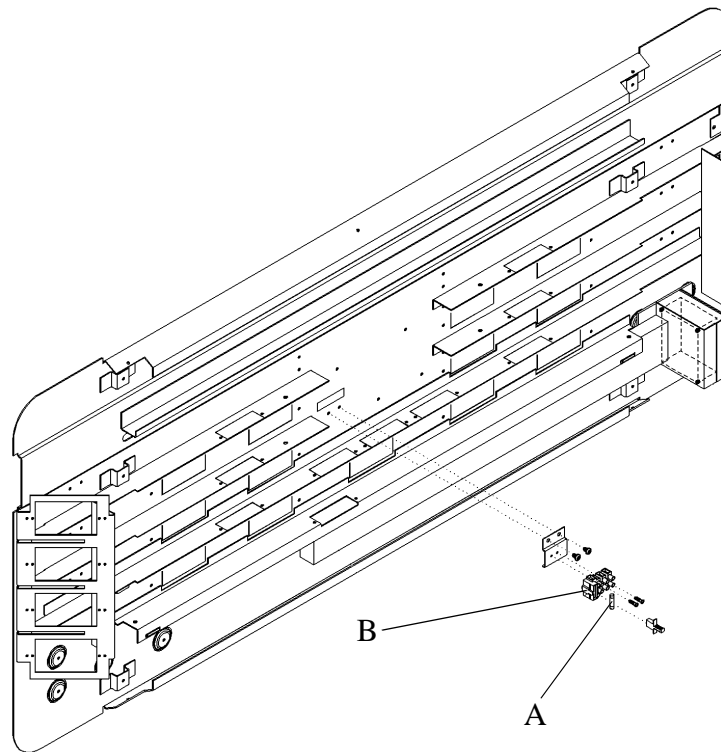


#### **SHOCK HAZARD:**

Locate the involved building standard or critical branch circuit breaker panel. Set the involved circuit breaker to OFF. Lock out and tag out the circuit breaker. Failure to follow this procedure could cause serious personal injury and damage to the equipment.

1. Locate the involved building standard or critical branch circuit breaker panel, and set the involved circuit breaker to OFF.
2. Lock out and tag out the circuit breaker.
3. Follow steps 1 through 3 of the section “Electrical Device Cover Plate” on page 4-3.
4. Remove the defective fuse (A) from the fuse holder (B) (see figure 4-9 on page 4-25).



**Figure 4-9. Fuse Replacement**

m138\_037

**4**

## Replacement

1. Replace the defective fuse with a new fuse.
2. Ensure the fuse (A) is fully seated into the fuse holder (B).
3. Follow steps 1 through 3 of the section “Electrical Device Cover Plate” on page 4-3 in reverse order.
4. Ensure all functions work properly.

## Adjustment

No adjustment is required for the Bed Locator fuse assembly.

**NOTES:**

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# Chapter 5

## Parts List

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## Warranty

# HILL-ROM, INC. LIMITED WARRANTY

Hill-Rom, Inc. (Hill-Rom) has a long tradition of providing superior products and service to our customer. Our goal is "Total Customer Satisfaction". In that spirit, Hill-Rom is proud to offer the following warranty.

### **GENERAL WARRANTY (APPLICABLE UNLESS A SPECIFIC WARRANTY IS LISTED)**

Hill-Rom warrants to the original purchaser that its products and replacement parts shall be free from defects in material and workmanship for a period of one (1) year from date of delivery. Hill-Rom's obligation under this warranty is expressly limited to supplying replacement parts and/or service for, or replacing, at its option, any product which is, in the sole discretion of Hill-Rom, found to be defective. In addition to the foregoing one year warranty, Hill-Rom warrants to the original purchaser that the frame and welds on its products will be free from structural defects for the life of the product. Any product upgrade or modification initiated by Hill-Rom does not affect the original product warranty.

### **SPECIFIC WARRANTIES**

#### **MATTRESS WARRANTIES**

Hill-Rom warrants to the original purchaser that its mattress product shall be free from defects in material and workmanship for a period of two (2) years from date of delivery. However, electro mechanical mattress components (compressors, valves, printed circuit boards, hoses, and couplers) are covered by the general one (1) year warranty.

#### **EXPENDABLES WARRANTIES**

A sixty (60) day limited warranty from date of delivery applies to expendable parts such as cushions, coverlets, software diskettes, locator badge batteries, dome light incandescent bulbs, overhead fluorescent tubes, heating elements, temperature probes, filter sheets, and microspheres. This warranty is limited to replacement of the parts covered.

#### **TO OBTAIN PARTS AND SERVICE**

In the United States, call Hill-Rom Technical Support Department at (800) 445-3720, Monday through Friday. In Canada, call Hill-Rom Technical Support Department at (800) 267-2337, Monday through Friday. Outside the United States and Canada, call your authorized Hill-Rom Distributor. In order to expedite service, we request you furnish the following information: customer identification number, product model number, serial number, and description of problem. A qualified specialist will provide, via telephone (United States and Canada), or FAX (Outside the United States and Canada), troubleshooting assistance for facility personnel and provide necessary parts to make repairs. If troubleshooting determines the need for on-site technical service, a qualified service representative will be dispatched. Replacement of non-technical items will be the responsibility of the customer. If requested by Hill-Rom, products or parts for which a warranty claim is made shall be returned prepaid to Hill-Rom's factory.

#### **OUT OF WARRANTY EXCHANGE POLICY**

After the expiration of the original warranty, upon request, Hill-Rom will ship as a replacement, components such as selected: motors and printed circuit boards, for like units returned to Hill-Rom by the original purchaser at a substantial savings. Please call Hill-Rom Technical Support Department for current pricing.

#### **PARTS AVAILABILITY POLICY**

Hill-Rom will offer parts for new and remanufactured products for ten (10) years from date of sale; for communications products for five (5) years from date of sale.

Note: Some original component parts and assemblies may not be available; functional equivalents may be substituted.

**THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE. HILL-ROM'S OBLIGATION UNDER THESE WARRANTIES SHALL NOT INCLUDE ANY LIABILITY FOR LOSS OF PROFITS, DIRECT, INDIRECT OR**

**CONSEQUENTIAL DAMAGES OR DELAYS.** Some states, provinces, or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply. Any improper or negligent use, any alterations or repairs not in accordance with Hill-Rom's manuals or performed by others in such manner as in Hill-Rom's sole judgment affects the product materially and adversely, shall void these warranties. These warranties do not cover failures due to misuse, abuse, neglect, or lack of routine maintenance. No employee or representative of Hill-Rom is authorized to change these warranties in any way or grant any other warranty unless in writing and signed by a Hill-Rom officer. These warranties provide specific legal rights; but, there may be other available rights, which vary from state to state, province to province, or country to country.

Revised October 20, 1998

**Hill-Rom Company, Inc., 1069 State Route 46 E, Batesville, IN 47006-9167**

**NOTES:**

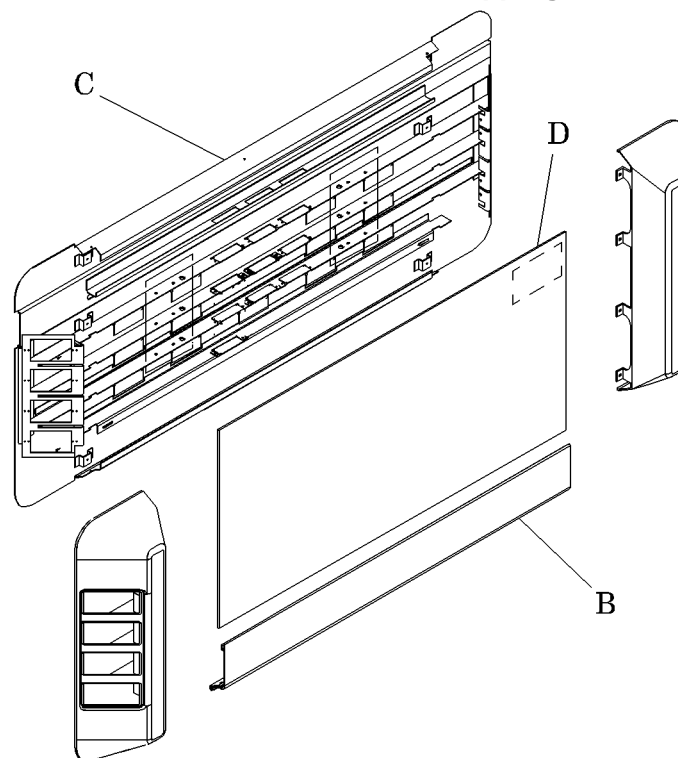
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## Service Parts Ordering

Using the parts lists in this manual, identify the part number(s) you require. Find the product number and serial number for the bed locator (C) on the product identification label located on the underneath side of the bumper panel (B) (see figure 5-1 on page 5-5). The shipping label is located on the opposite side of the access panel (D).

**Figure 5-1. Bed Locator Product and Shipping Label Locations**



m138\_047

Call Hill-Rom Technical Support at (800) 445-3720 with the following information:

- Six-digit customer account number
- Purchase order number
- Product number
- Serial number
- Part number(s)

To promptly order parts, request part prices and availability, or follow up on a service order, use the following Hill-Rom fax number:

(812) 934-8472

**Terms:**

- Net 30 days
- F.O.B. Batesville, IN
- Prepaid shipping charges added to invoice
- All orders shipped UPS ground unless specified

**Address all inquiries to:**

ATTN TECHNICAL SUPPORT—PARTS  
HILL-ROM COMPANY, INC.  
1069 STATE ROUTE 46 E  
BATESVILLE IN 47006-9167

**Address all return goods to:**

ATTN SERVICE STORES  
DISTRIBUTION CENTER DOOR D23  
HILL-ROM COMPANY, INC.  
COUNTY ROAD 300E  
BATESVILLE IN 47006-9167

**NOTE:**

To eliminate possible delays or incorrect billings, **do not** return any items without a Return Material Authorization (RMA) number. When a return is requested, an RMA packet is included with each order. This packet includes an RMA number, instructions, and a shipping label. If an RMA number is not available, obtain one by phoning Hill-Rom Customer Service at (800) 556-5596



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## Exchange Policy

The following are policies for in-warranty and out-of-warranty exchanges from Hill-Rom.

### In-Warranty Exchanges

In some cases, Hill-Rom will request that parts/products be returned for inspection. When this occurs, you are expected to return parts/products within 30 days of receipt of the exchange part. If you fail to return the inoperative parts/products within the 30 day period, Hill-Rom will invoice your facility for the full selling price of the parts/products.

**NOTE:**

The preceding billing procedure pertains **only** to parts/products that Hill-Rom requests to be returned.

In some cases, the invoice accompanying the parts will show the full selling price (only for internal use at Hill-Rom). Do not confuse this price with your price.

**Do not** return any parts without an RMA number. When parts/products have been requested to be returned, Hill-Rom will include an RMA packet with the parts/products shipment. If an RMA number is not available, obtain one by phoning Hill-Rom Technical Support at (800) 445-3720.

### Out-of-Warranty Exchanges

You are expected to return the inoperative parts/products within 30 days of receipt of the exchange part. Hill-Rom will include an RMA packet with the parts/products shipment. If an RMA number is not available, obtain one by phoning Hill-Rom Technical Support at (800) 445-3720. Hill-Rom will invoice your facility for the full selling price of the parts/products. Upon return of the inoperative parts/products, Hill-Rom will issue a credit to your facility for **the difference between the exchange price and the full selling price of the parts/products**.

## Recommended Spare Parts

See table 5-1 on page 5-8 for a recommended spare parts list to service five units or more.

**Table 5-1. Recommended Spare Parts**

Part Number	Quantity	Description
58258 (2016)	10	Night light bulb
58260 (2016)	10	Fuse
56409 (2016)	2	Cover extrusion
57872 (2016)*	2	Access panel
54632-01 (2016)	3	Controller complete—(120V) P531
5463202 (2016)	3	Controller complete—(240V) P531
54632-03 (2016)	3	Controller complete—(277V) P531
203507120 (2016)	3	Controller complete—(120V) P535
203507240 (2016)	3	Controller complete—(240V) P535
203507277 (2016)	3	Controller complete—(277V) P535
53724 (2016)	6	Trim—panel

\* Specify high pressure laminate color.

See table 5-2 on page 5-8 for paint color descriptions applicable to all colored parts for the P2016 Bed Locator models.

**Table 5-2. Paint Color Descriptions**

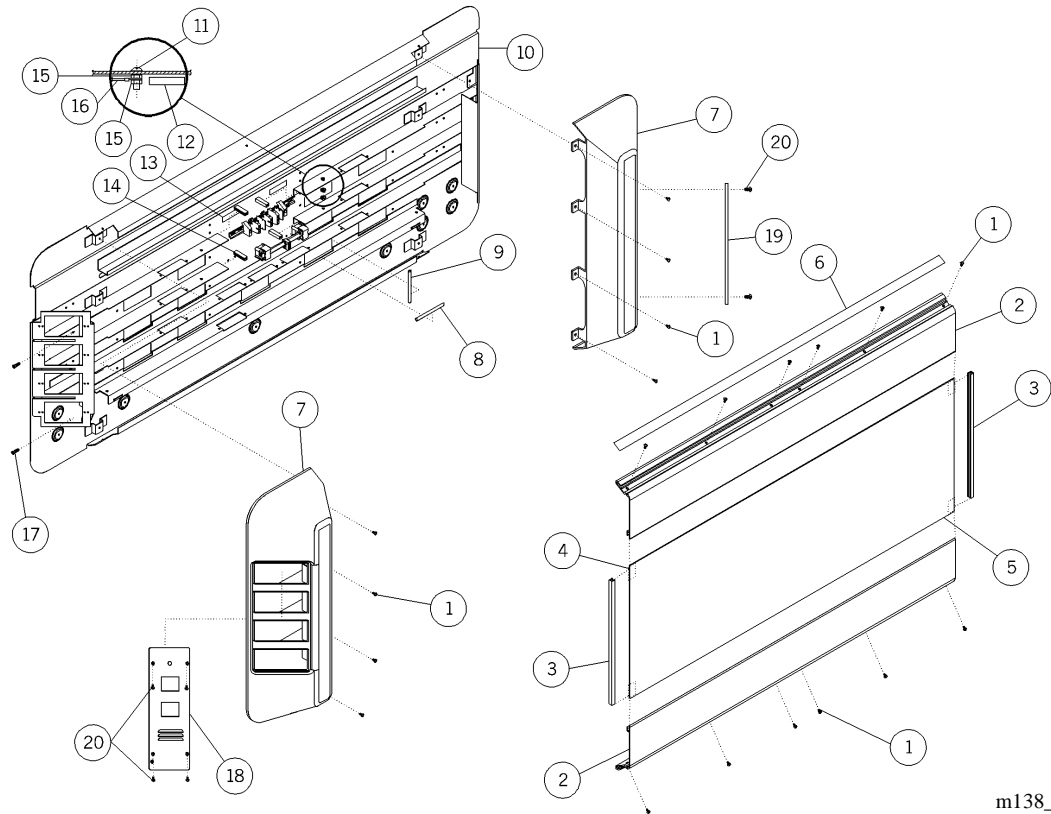
Specification	Description
LN	Light neutral
SG	Sage Green
CS	Cool stone
CL	Clay (pink)
WW	Warm white

**NOTES:**

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## Bed Locator Assembly (P786F00 Bed Locator)

Figure 5-2. Bed Locator Assembly (P786F00 Bed Locator)



m138\_008

**Table 5-3. Bed Locator Assembly (P786F00 Bed Locator)**

Item Number	Part Number	Quantity	Description
1	53125-02 (2016)	14	Screw
2	56409 (2016)	2	Cover extrusion
3	53724 (2016)	2	Trim—panel
4	58237 (2016)	4	Mylar tape, insulator
5	57872 (2016)*	1	Access panel
6	53721 (2016)*	1	Insert trim
7	53706 (2016)	2	Bumper
8	55408 (2016)	6	Grommet edging—2"
9	55409 (2016)	6	Grommet edging—3"
10	5825039 (2016)	1	Back plate assembly
11	52243-05 (2016)	1	Screw
12	58302 (2016)	1	Label, sheet—faceplate and misc.
13	58267 (2016)	1	Label sheet—hazards
14	58264 (2016)	4	13/16" grommet edging
15	15250 (2016)	2	Locknut washer base
16	5824600 (2016)	1	Wire lead, green/yellow
17	29591 (2016)	4	Screw
18	SP4490148 (2016)**	1	Device cover plate
19	SP4490248 (2016)**	1	Device cover plate
20	16114 (2016)	8	Screw

\* Specify high pressure laminate color.

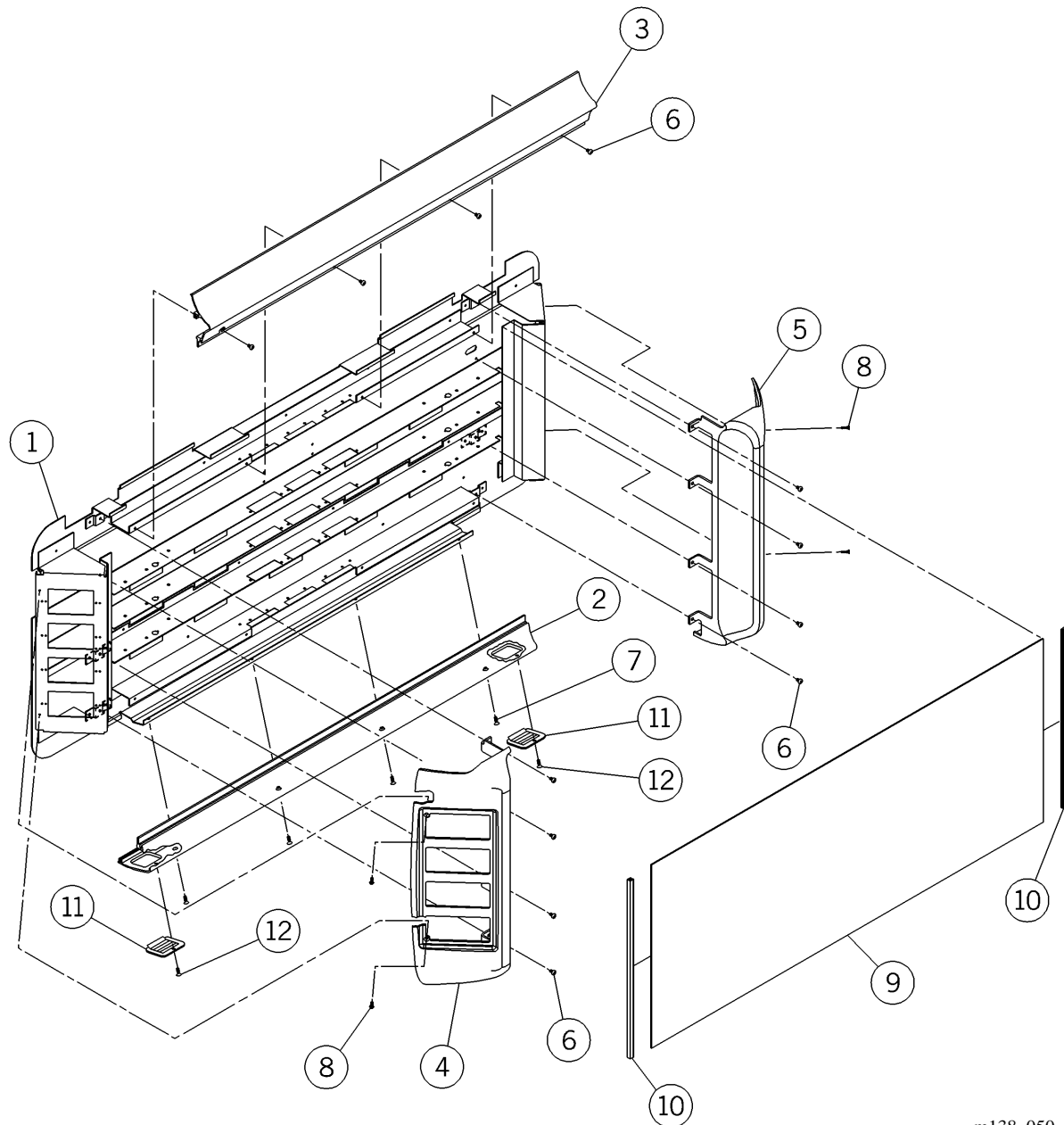
\*\* Call Hill-Rom Technical Support for specific instructions when ordering this part.

**NOTE:**

Your Bed Locator may not have all of the items listed in the parts list. Parts actually installed are based on the options purchased.

## Bed Locator Assembly (P201605 Bed Locator) Integrated

Figure 5-3. Bed Locator Assembly (P201605 Bed Locator) Integrated



m138\_050

**Table 5-4. Bed Locator Assembly (P201605 Bed Locator) Integrated**

Item Number	Part Number	Quantity	Description
1	205168 (2016)	1	Backplate divider, bed locator
2	20442603 (2016)§	1	Lower rail, bed locator
3	204508 (2016)§	1	Upper rail, bed locator
4	5842702 (2016)§	1	End cap, lh
5	5842703 (2016)§	1	End cap, rh
6	5255503 (2016)	12	Screw
7	55315 (2016)	4	Screw—flat head
8	50590 (2016)	4	Screw
9	204509 (2016)*	1	Access panel, bed locator
10	59108 (2016)	2	Access panel, edging, bed locator
11	59371 (2016)	2	Night light louver
12	5294501 (2016)	2	Screw

§ Specify paint color.

\* Specify high pressure laminate color.

This diagram shows an exploded view of a mechanical assembly. The parts are numbered 1 through 13. The assembly consists of a base (1) with a track (4) and a sliding mechanism. A handle (6) is attached to the end of the track. A gear (13) is mounted on the handle, which meshes with a pinion (11) on a shaft (9). The shaft is supported by bearings (12) and a housing (10). A spring (8) is used to return the handle to its original position. A stop (7) is also present. The assembly is shown in a disassembled state to illustrate the relationship between the components.

5

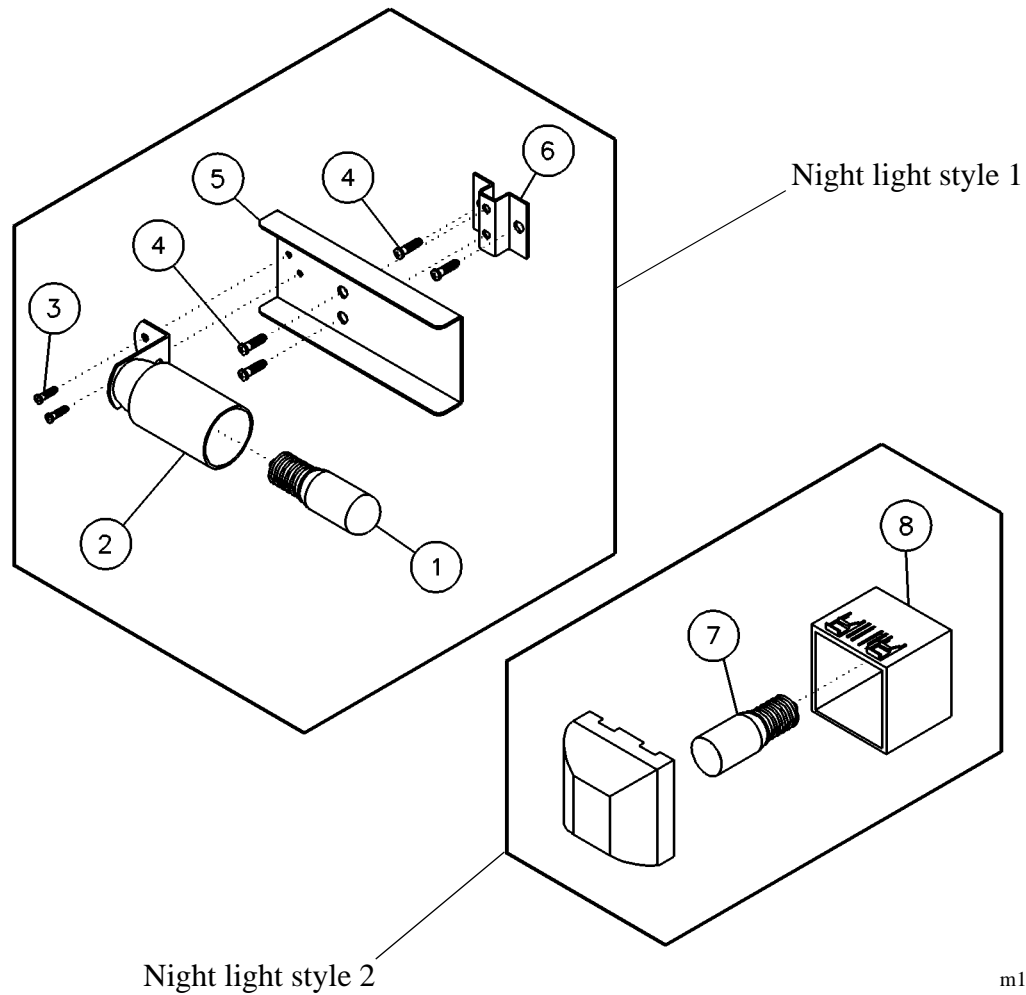


**Table 5-5. Terminal Block Assembly**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	57900 (2016)	1	Terminal block—gray
2	57903 (2016)	1	Terminal block—protective earth
3	57896 (2016)	1	Isolation partition
4	57902 (2016)	2	End stop
5	57901 (2016)	1	End plate
6	58325 (2016)	1	Terminal block rail
7	57898 (2016)	1	Tag—white
8	57897 (2016)	1	Tag—blue
9	393 (2016)	2	Screw
10	52243-07 (2016)	1	Screw
11	15250 (2016)	1	Locknut washer base
12	58324 (2016)	1	Standoff nut
13	34084 (2016)	2	Lockwasher—external tooth

## Night Light Assembly

Figure 5-5. Night Light Assembly



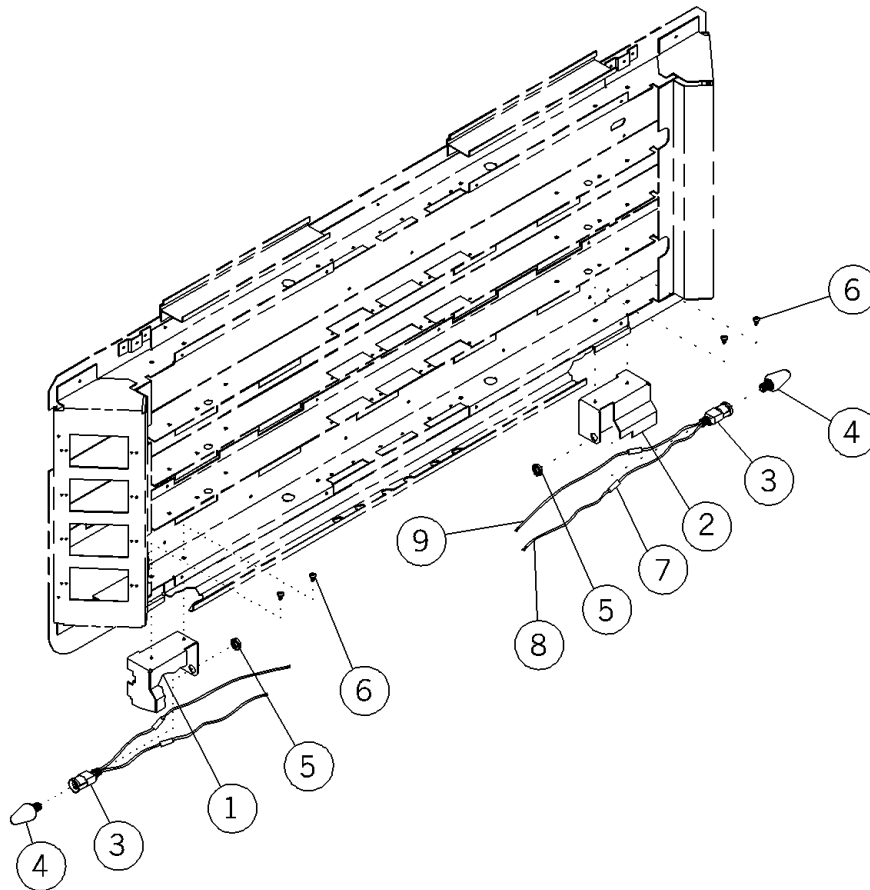
m138\_027

**Table 5-6. Night Light Assembly**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	58258 (2016)	1	Night light bulb
2	58257 (2016)	1	Night light socket
3	54416 (2016)	2	Screw
4	393 (2016)	4	Screw
5	58256 (2016)	1	Lamp deflector bracket
6	58263 (2016)	1	Deflector mounting bracket
7	58298 (2016)	2	E10 lamp
8	58341 (2016)	4	Legrand™ night light

## Night Light Assembly (Integris® 2000 Headwall System)

Figure 5-6. NightLight Assembly (Integris® 2000 Headwall System)



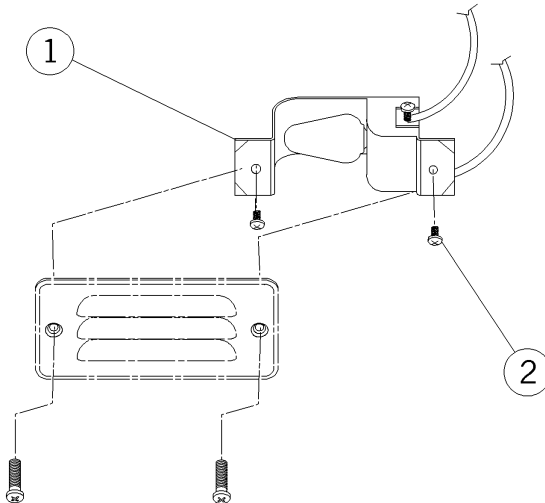
m138\_061

**Table 5-7. NightLight Assembly (Integris® 2000 Headwall System)**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	5936801 (2016)	1	Night light housing, lh
2	5936802 (2016)	1	Night light housing, rh
3	12379 (2016)	2	Night light socket
4	15418 (2016)	2	Night light bulb
5	983 (2016)	2	Lockut
6	393 (2016)	4	Screw
7	14465 (2016)	4	Wire nut
8	5125548 (2016)	2	Wire lead—48" (white)
9	5322048 (2016)	2	Wire lead—48" (red)

## Night Light Assembly (Shallow)

Figure 5-7. Night Light Assembly (Shallow)



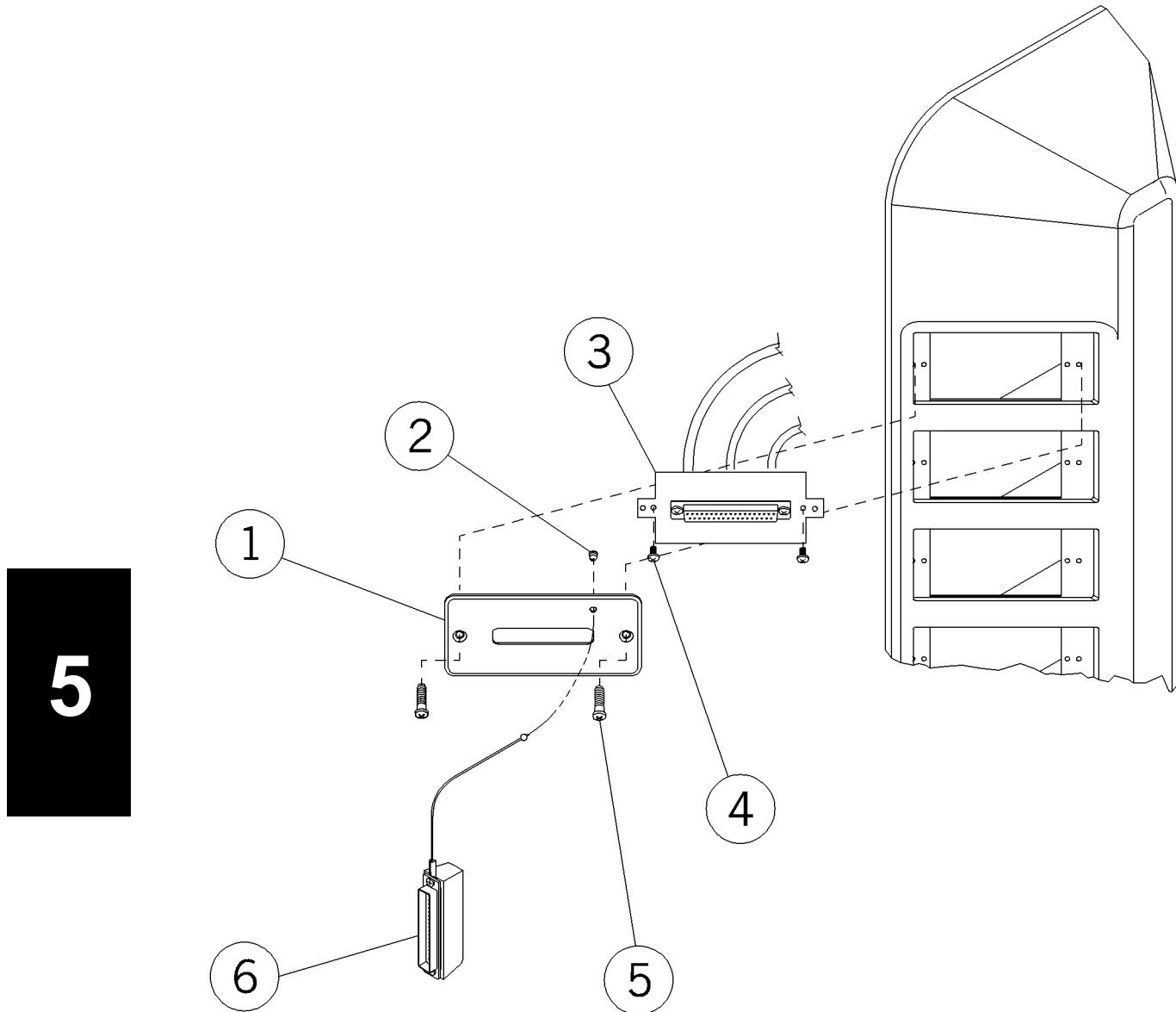
m138\_062

**Table 5-8. Night Light Assembly (Shallow)**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	28220 (2016)	1	Lampholder with bulb
2	16115 (2016)	2	Screw

## SideCom® Communication System Connector Assembly

Figure 5-8. SideCom® Communication System Connector Assembly



m138\_044



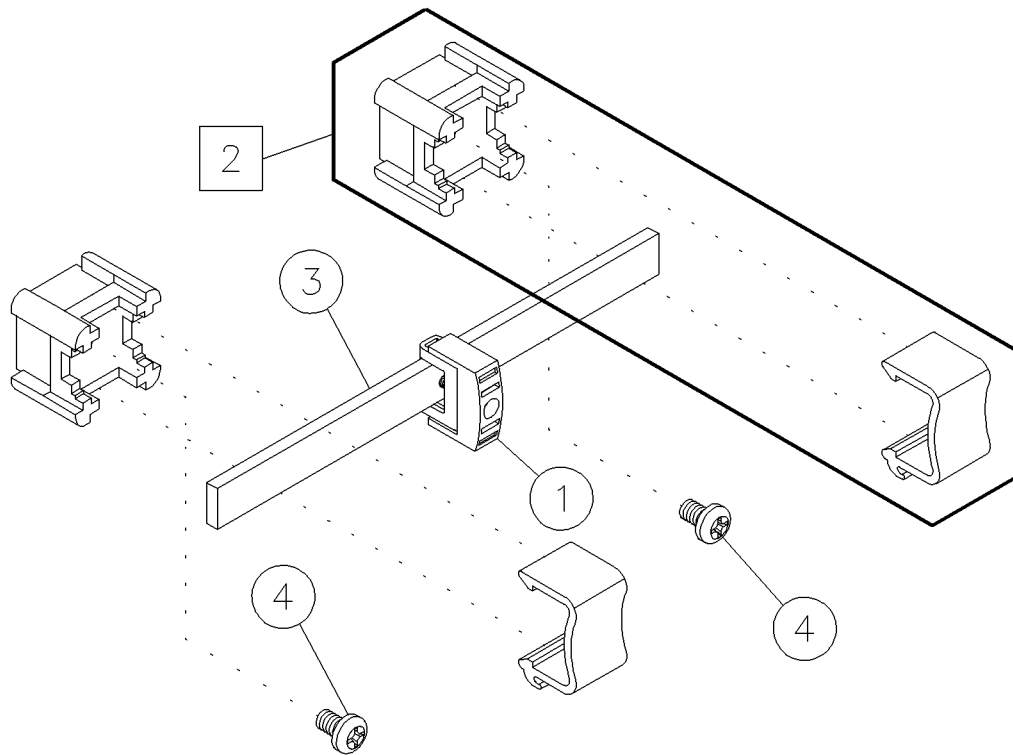
**Table 5-9. SideCom® Communication System Connector Assembly**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	52231 (2016)	1	Sidecom faceplate —almond
2	29246 (2016)	1	Sleeve
3	31590-03 (2016)	1	Cable connector assembly
4	16115 (2016)	2	Screw
5	50590 (2016)	2	Screw
6	SA1238 (2016)	1	Dummy plug assembly, sleeve
7	54604 (2016)*	1	Cable, light interconnect
8	29913 (2016)*	1	Read label
9	29914 (2016)*	1	Indirect label
10	31066 (2016)*	1	Common label
11	32741 (2016)*	3	Wire joint
12	15390 (2016)*	3	Wire nut

\* Item not shown.

## Potential Equalization Assembly

Figure 5-9. Potential Equalization Assembly



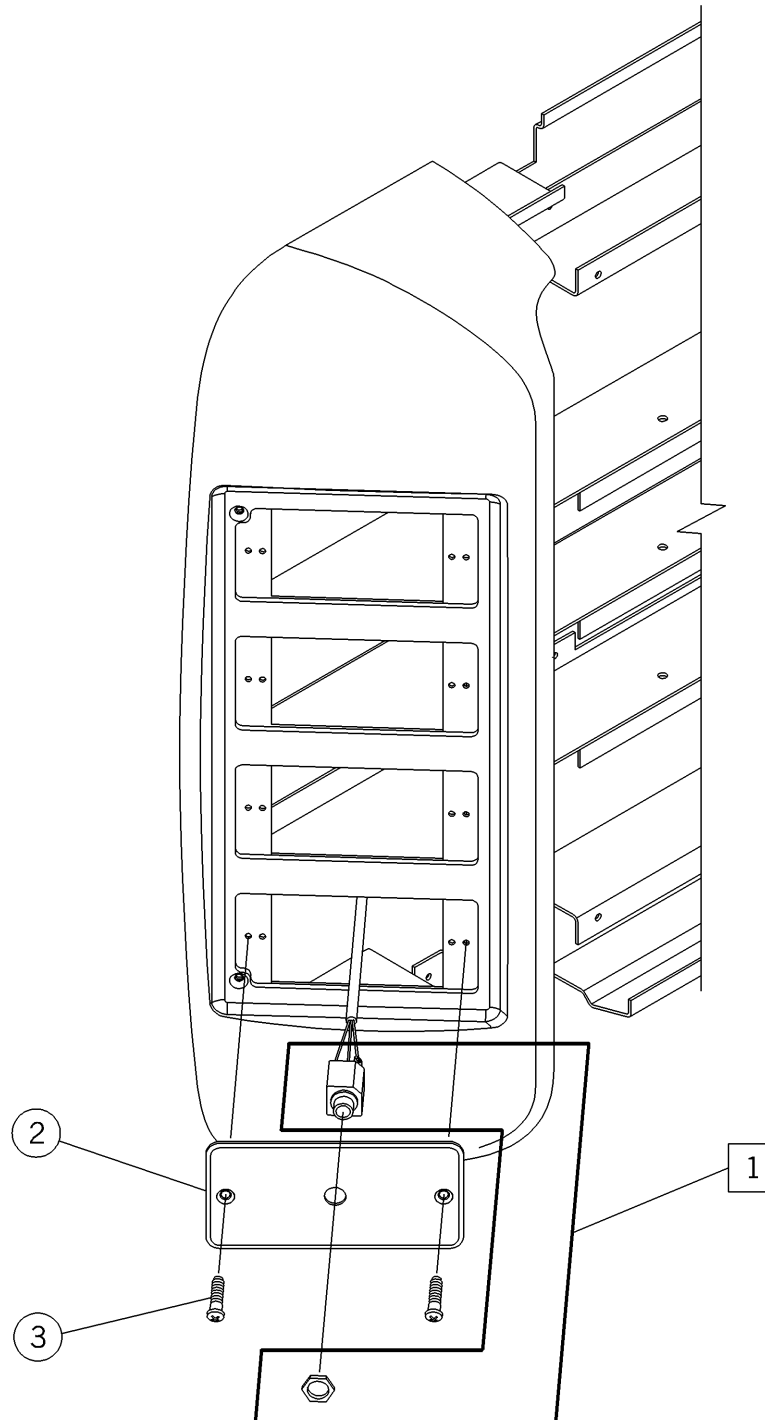
m138\_031

**Table 5-10. Potential Equalization Assembly**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	57889 (2016)	1	Clamp with cover
2	57888 (2016)	2	Busbar support
3	58337 (2016)	1	4" busbar
4	53125-02 (2016)	2	Screw

## Pendant Switch Socket

Figure 5-10. Pendant Switch Socket



m138\_048

**Table 5-11. Pendant Switch Socket**

Item Number	Part Number	Quantity	Description
1	54233 (2016)	1	Socket assembly lighting pendant
2	54145 (2016)§	1	Faceplate .250 socket
3	50590 (2016)	2	Screw

§ Specify dash number if product color is:

-48 Light neutral (off-white)

-33 Taupe (brown)

Potential Equalization Socket

Figure 5-11. Potential Equalization Socket

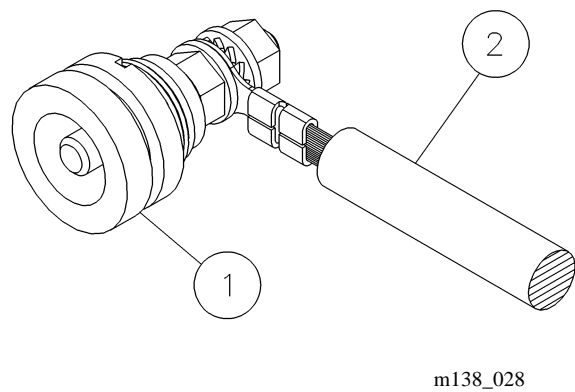


Table 5-12. Potential Equalization Socket

Item Number	Part Number	Quantity	Description
1	58154 (2016)	1	Potential equalization socket
2	5828900 (2016)	1	Wire lead, green/yellow, 4mm <sup>2</sup>

Electrical Mains Socket

Figure 5-12. Electrical Mains Socket

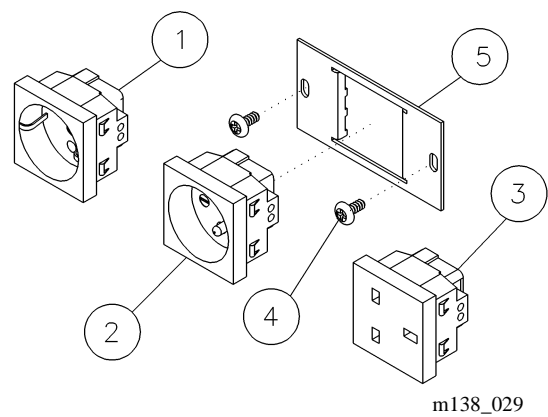
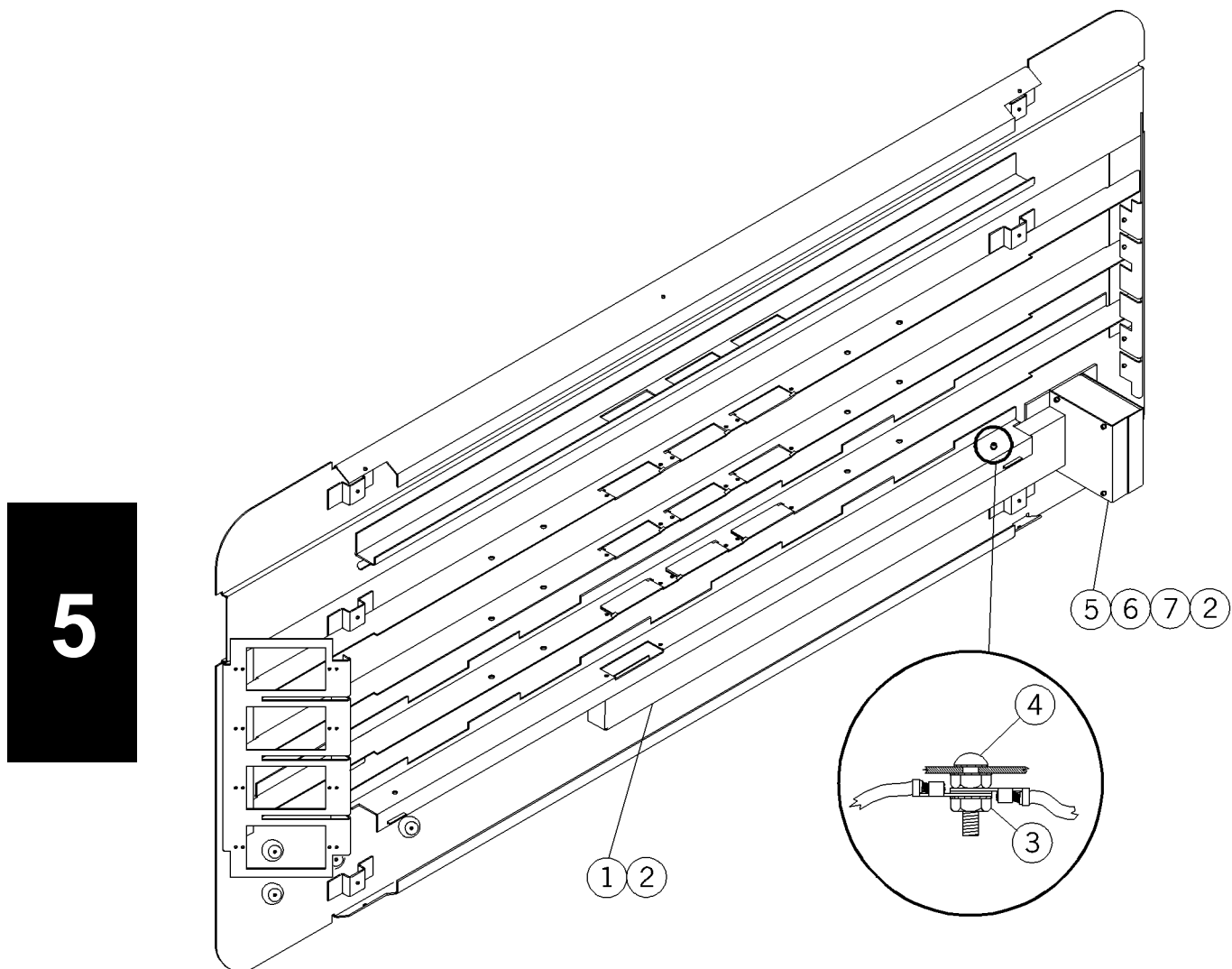


Table 5-13. Electrical Mains Socket

Item Number	Part Number	Quantity	Description
1	58144 (2016)	1	Legrand™ receptacle (French)
2	58145 (2016)	1	Legrand™ receptacle (German)
3	58209 (2016)	1	Legrand™ receptacle (British)
4	16115 (2016)	2	Screw
5	57905 (2016)	1	Legrand™ mounting plate

## Low Voltage Controller (P786F00 Bed Locator)

Figure 5-13. Low Voltage Controller (P786F00 Bed Locator)



m138\_042



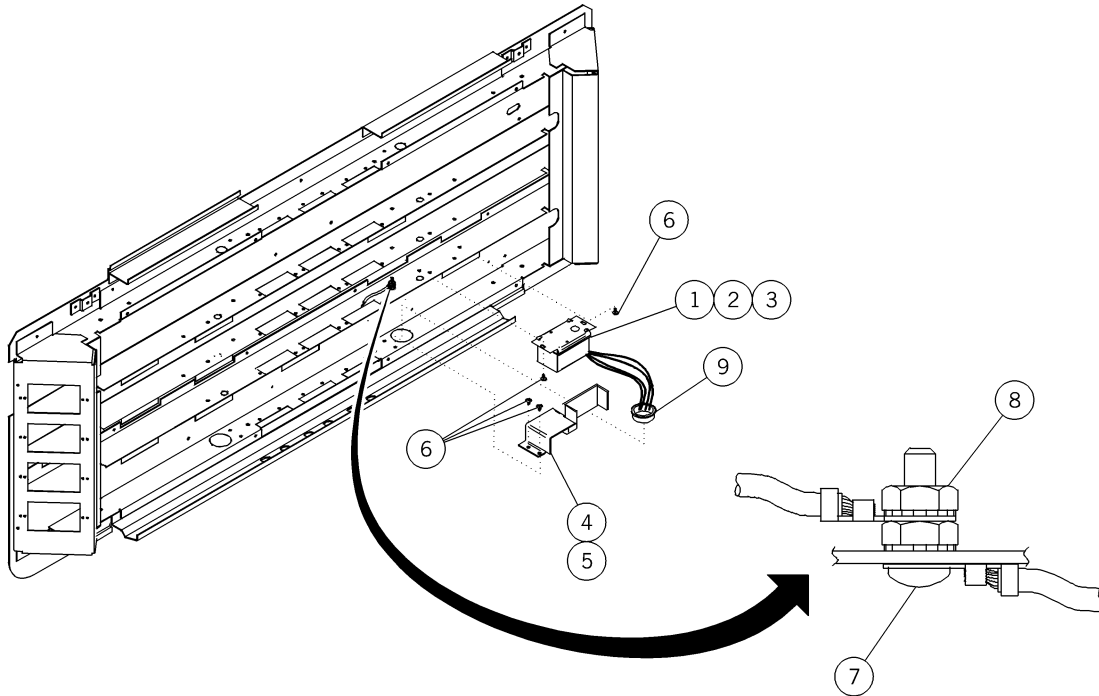
**Table 5-14. Low Voltage Controller (P786F00 Bed Locator)**

Item Number	Part Number	Quantity	Description
1	54014 (2016)	1	Barrier LVC painted
2	393 (2016)	6	Pan head screw
3	15250 (2016)	2	Locknut washer base
4	52243-05 (2016)	1	Screw
5	54632-01 (2016)	1	Controller complete—(120V)
6	5463202 (2016)	1	Controller, complete—240V
7	54632-03 (2016)	1	Controller complete—(277V)
8	5188148 (2016)*	1	Wire lead—green
9	5125448 (2016)*	1	Wire lead—black
10	5125548 (2016)*	1	Wire lead white
11	5247248 (2016)*	1	Wire lead pink
12	5247348 (2016)*	1	Wire lead yellow
13	32741 (2016)*	7	Wire joint
14	29913 (2016)*	1	Read label
15	29914 (2016)*	1	Indirect label
16	56132 (2016)*	4	Label, 277 volt
17	32741 (2016)*	As required	Wire joint

\* Item not shown.

## Low Voltage Controller Option (P2016 Bed Locator)

Figure 5-14. Low Voltage Controller Option (P2016 Bed Locator)



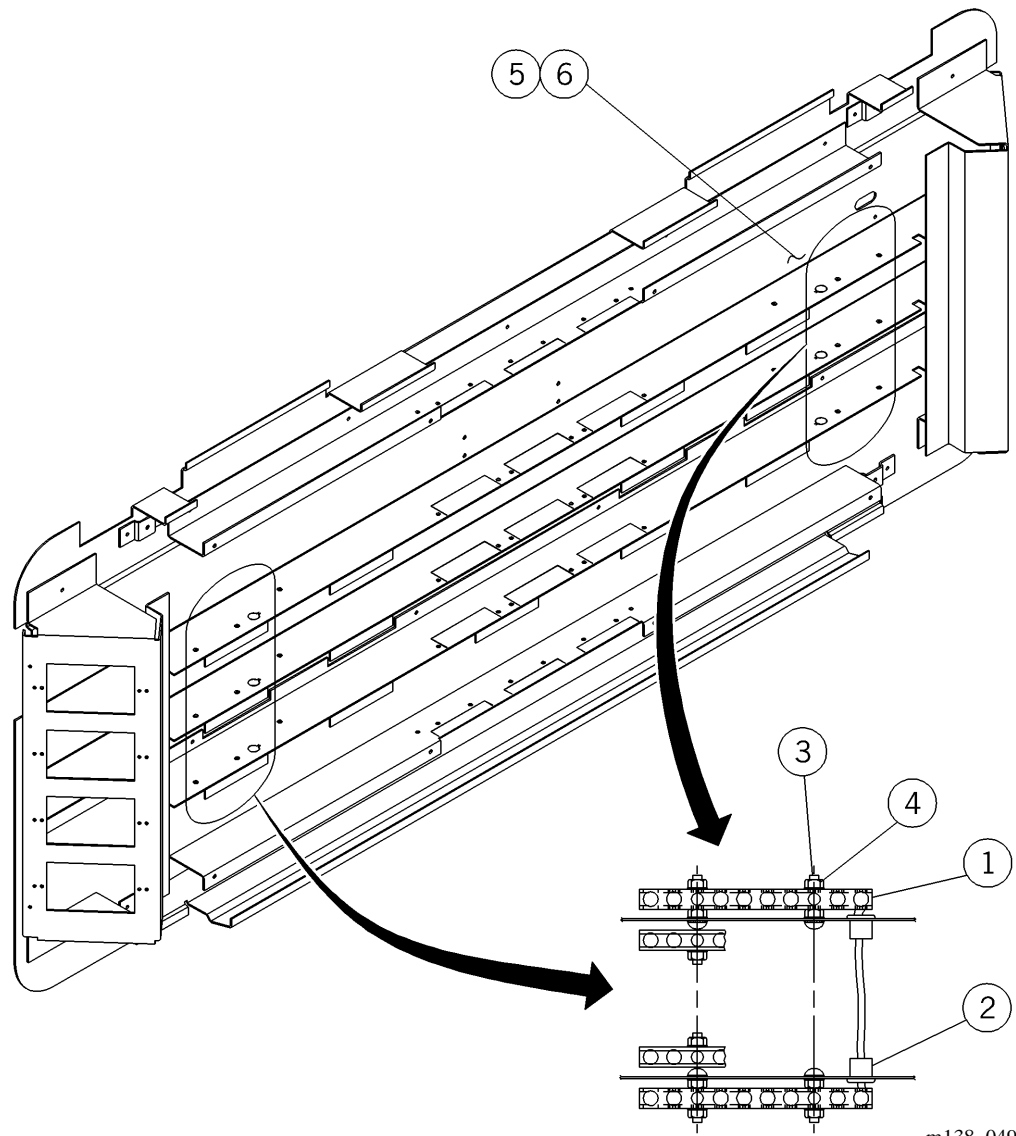
m138a063

**Table 5-15. Low Voltage Controller Option (P2016 Bed Locator)**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	203507120 (2016)	1	Controller complete—(120V) P535
2	203507240 (2016)	1	Controller complete—(240V) P535
3	203507277 (2016)	1	Controller complete—(277V) P535
4	204207-01	1	Low voltage controller barrier assembly, L.H.
5	204207-02	1	Low voltage controller barrier assembly, R.H.
6	393 (2016)	4	Screw
7	52243-05 (2016)	1	Screw
8	15250 (2016)	2	Locknut washer base
9	57936 (2016)	1	Snap bushing, 1¼"

## Ground Bar Option

Figure 5-15. Ground Bar Option



m138\_049

**Table 5-16. Ground Bar Option**

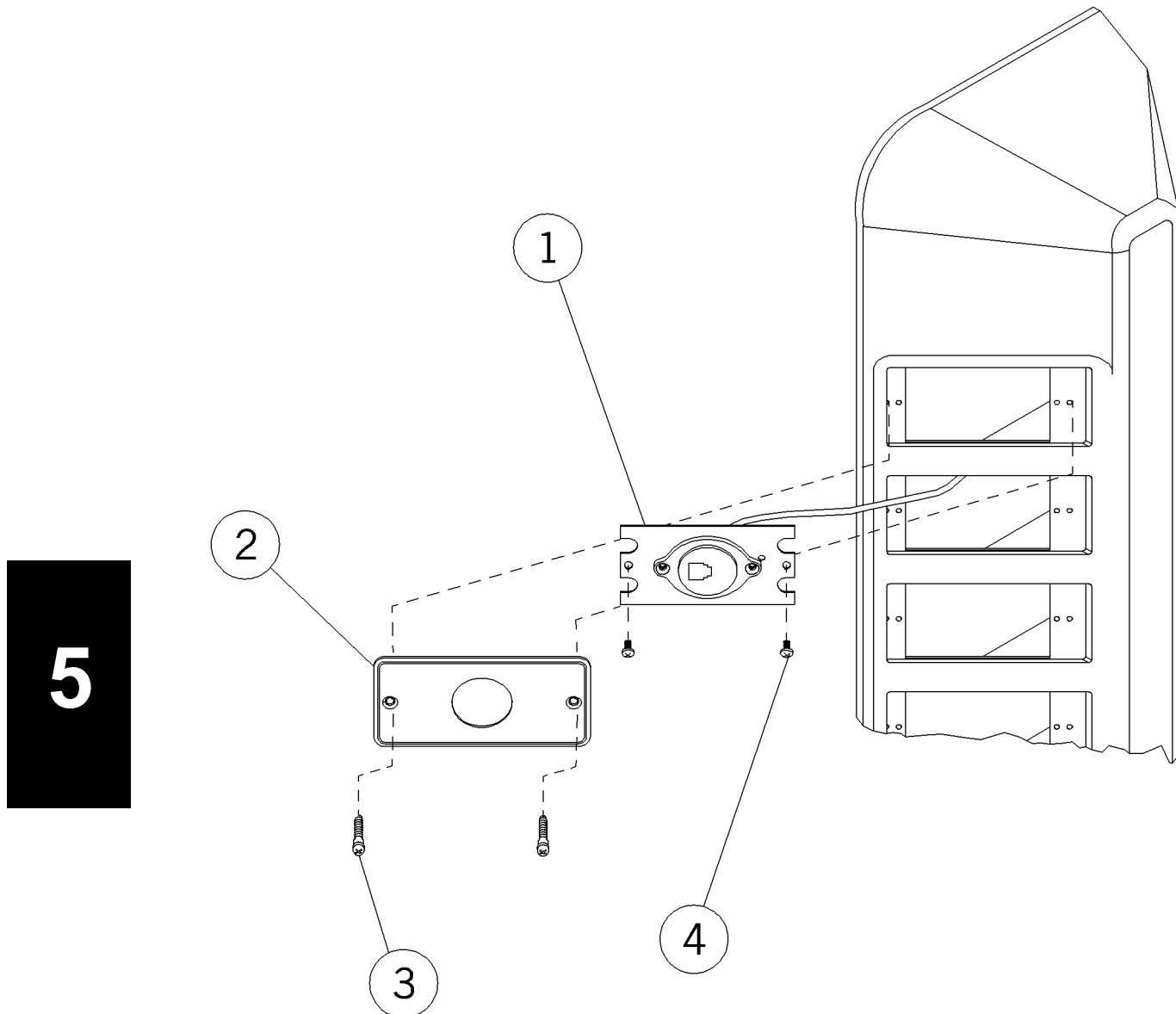
<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	56551 (2016)*	1	Ground bar
2	18148 (2016)**	2	Snap bushing
3	52243-07 (2016)	1	Screw
4	15250 (2016)	As required	Locknut washer base
5	32112 (2016)	1	Reference ground label
6	32252 (2016)	7	Label, torque

\* A quantity of 1 used on assembly -01, a quantity of 2 used on assembly -02.

\*\* Used on assembly -02 only.

## Telemate Receptacle

Figure 5-16. Telemate Receptacle



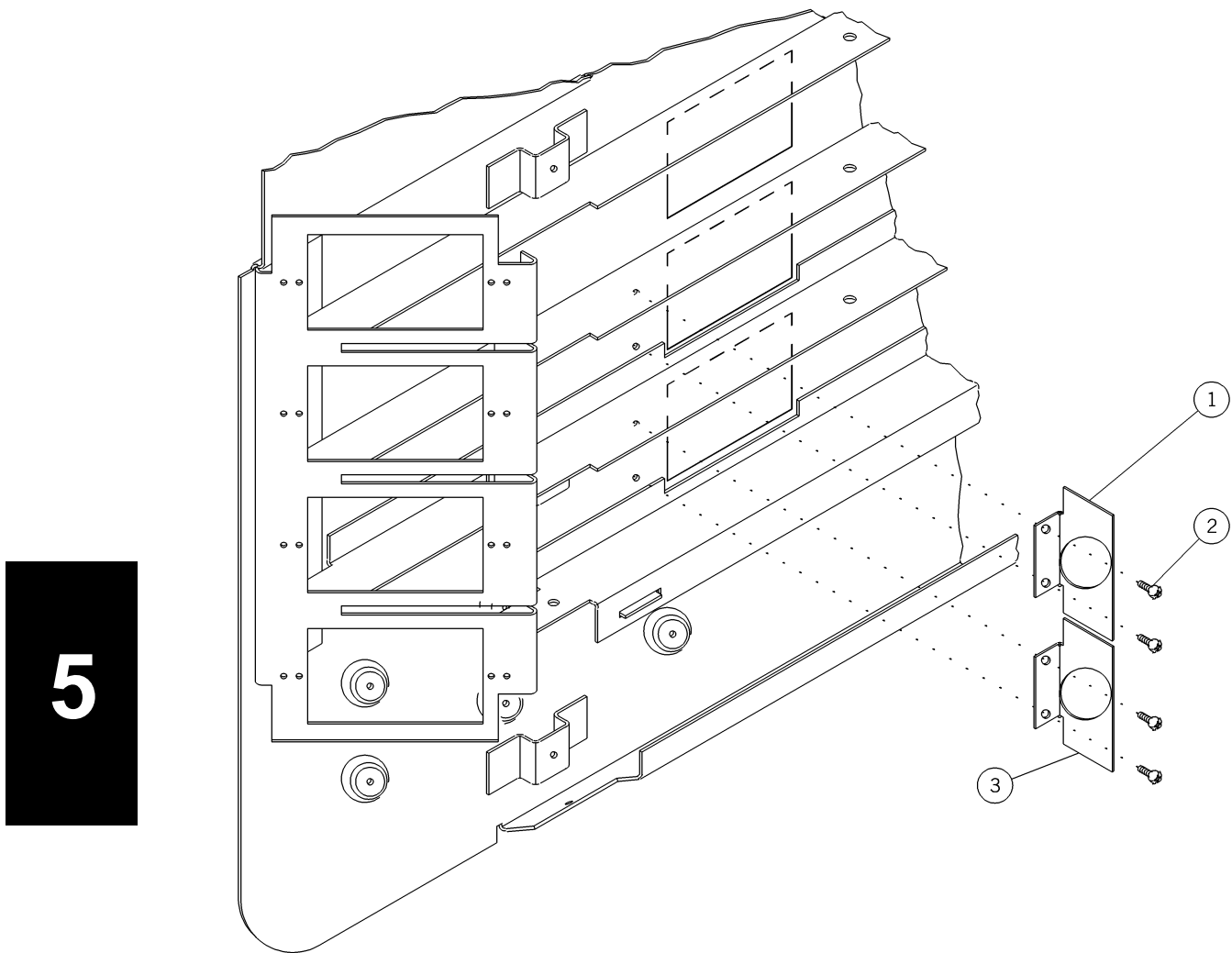
m138\_041

**Table 5-17. Telemate Receptacle**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	54600 (2016)	1	Phone receptacle assembly
2	52235 (2016)	1	Faceplate—telemate
3	50590 (2016)	2	Screw
4	16115 (2016)	2	Screw

## Flatwall Interconnect

Figure 5-17. Flatwall Interconnect



m138a040



**Table 5-18. Flatwall Interconnect with the P786F00 Bed Locator**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	55017 (2016)	1	Conduit connector
2	393 (2016)	1	Screw
3	55017 (2016)	1	Conduit connector

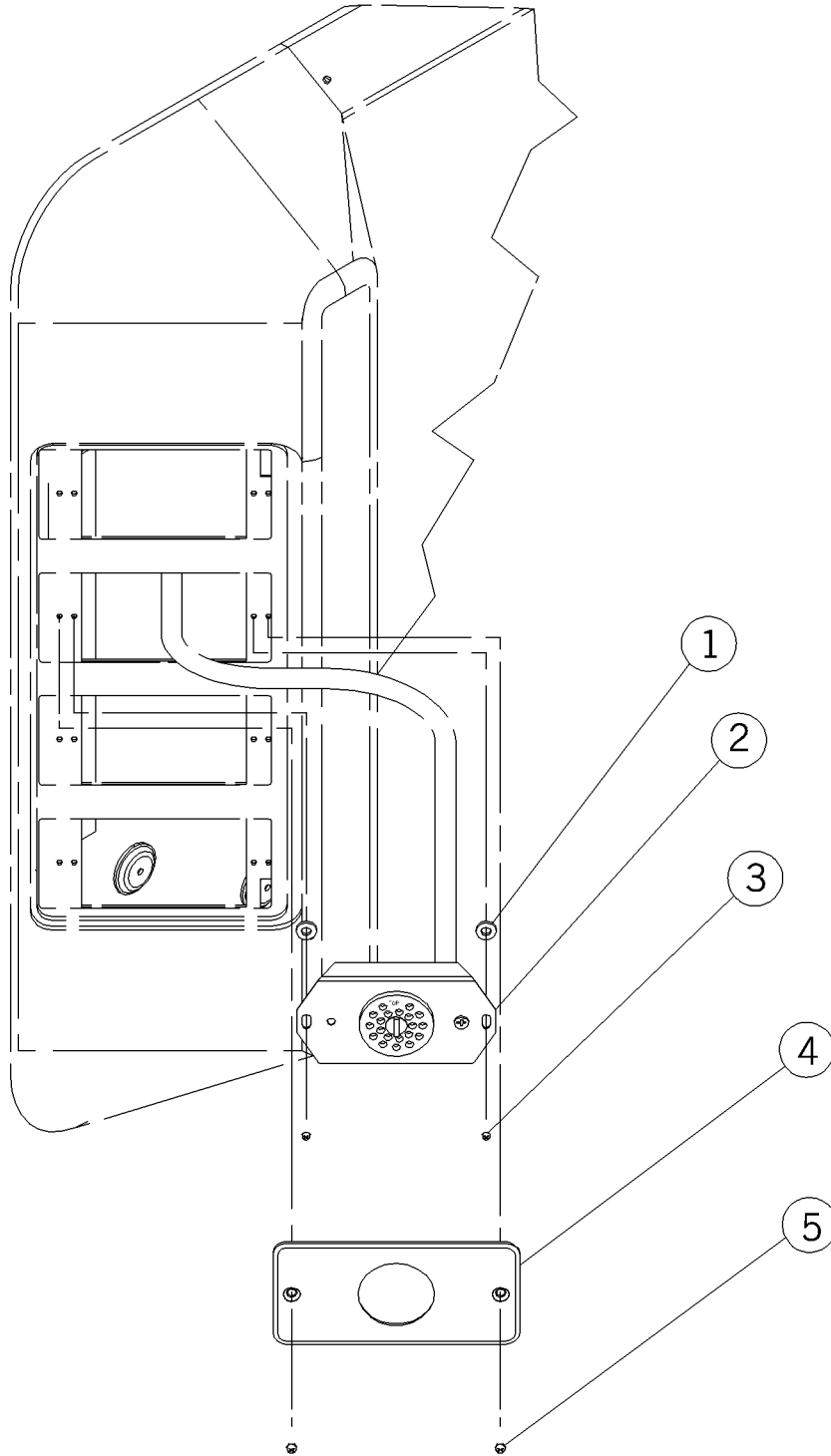
**Table 5-19. Flatwall Interconnect with the P2016 Bed Locator**

<b>Item Number</b>	<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
1	59382 (2016)	1	Conduit connector
2	393 (2016)	1	Screw
3	59383 (2016)	1	Conduit connector

## SideCom® Communication System Receptacle—Sylvania Nurse Call

Figure 5-18. SideCom® Communication System Receptacle—Sylvania Nurse Call

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m138\_039

**Table 5-20. SideCom® Communication System Receptacle—Sylvania Nurse Call**

Item Number	Part Number	Quantity	Description
1	53065-02 (2016)	2	Fiber washer
2	54594 (2016)	1	Cable connector assembly
3	16115 (2016)	2	Screw
4	52228 (2016)§	1	Simplex faceplate—almond
5	50590 (2016)	2	Screw

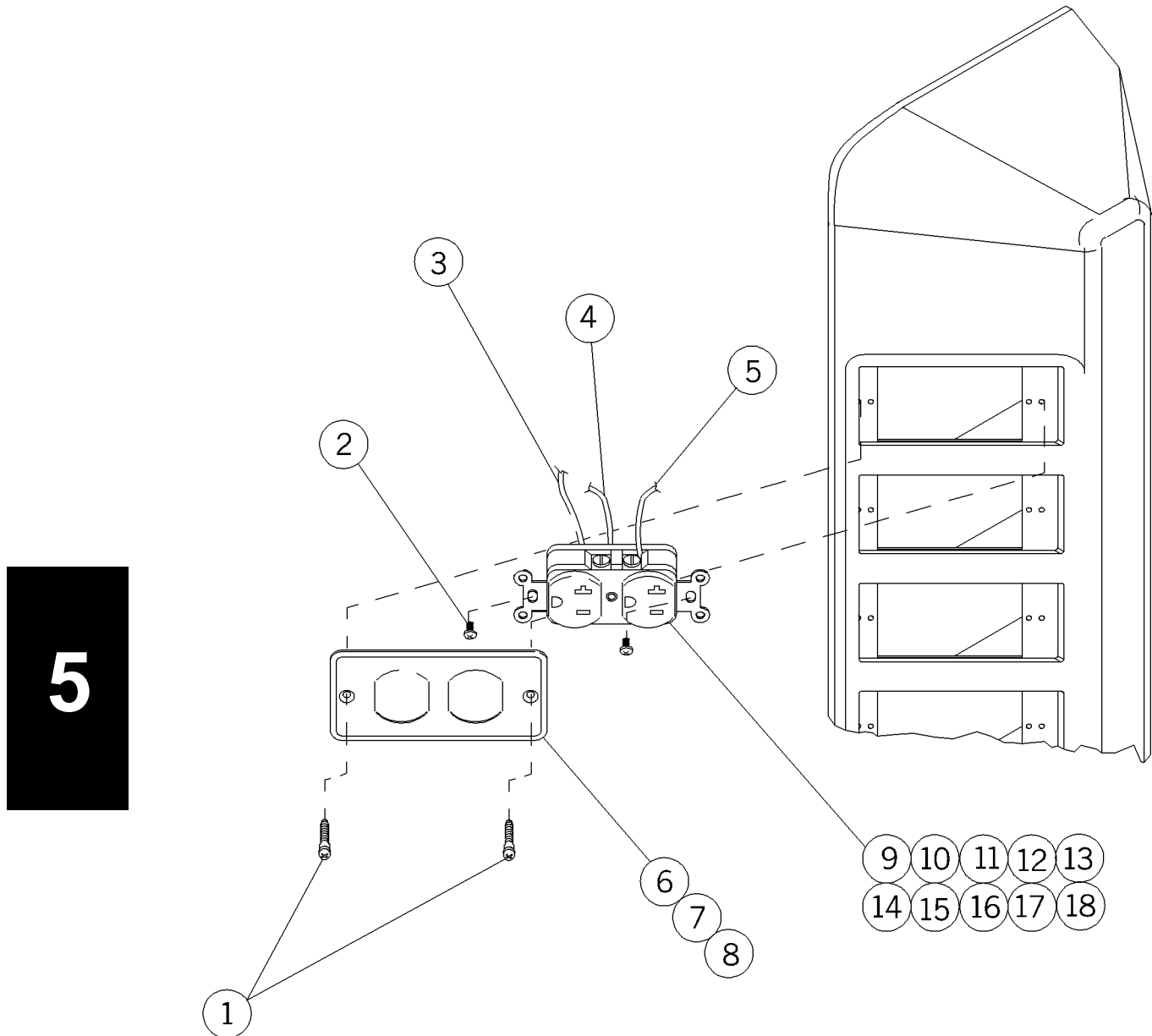
§ Specify dash number if product color is:

-48 Light neutral (off-white)

-33 Taupe (brown)

## Duplex Receptacle

Figure 5-19. Duplex Receptacle



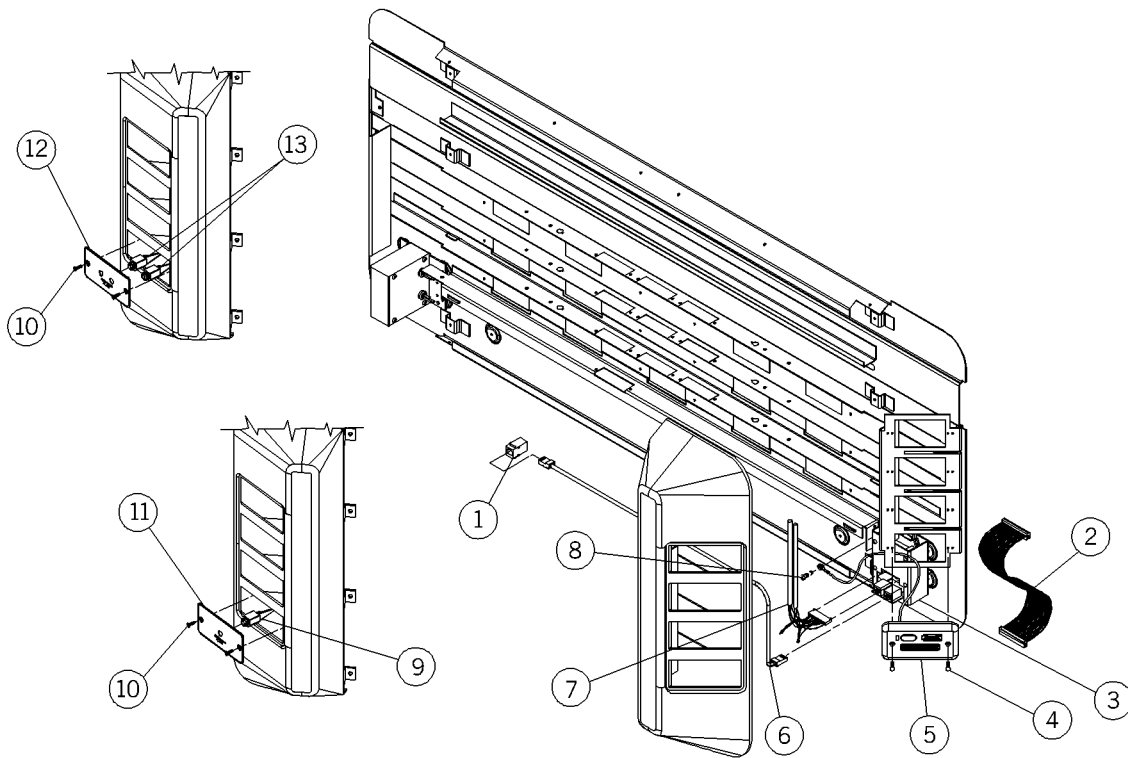
m138\_038

**Table 5-21. Duplex Receptacle**

Item Number	Part Number	Quantity	Description
1	50590 (2016)	2	Screw
2	16115 (2016)	2	Screw
3	51672-48 (2016)	1	Wire lead—green
4	5125460 (2016)	1	Wire lead—black
5	5125560 (2016)	1	Wire lead—white
6	52227 (2016)	1	Duplex faceplate—receptacle
7	55168 (2016)	1	Faceplate, engraved GFCI
8	55207 (2016)	1	Label—GFCI warning
9	28439 (2016)	1	Outlet, duplex 20A (ivory)
10	28436 (2016)	1	Outlet, duplex 20A (red)
11	33798 (2016)	1	Outlet—pediatric, (15A) (ivory)
12	33799 (2016)	1	Outlet—pediatric, (15amp) (red)
13	51129 (2016)	1	Outlet-duplex—15 amp—ivory
14	51130 (2016)	1	Outlet-duplex—15amp—red
15	51036 (2016)	1	Outlet-GFR—20 amp/ivory
16	52414 (2016)	1	Outlet, duplex, 20amp, ivory
17	52413 (2016)	1	Outlet, duplex, 15amp, ivory
18	52412 (2016)	1	Outlet-duplex, 15A—iso power

## Bed Interface Unit

Figure 5-20. Bed Interface Unit



m138\_046

**Table 5-22. Bed Interface Unit**

Item Number	Part Number	Quantity	Description
1	57637 (2016)	1	Coupler, modular plug, 8 pos
2	57096 (2016)	1	Ribbon cable assembly, BIU interconnect
3	57592 (2016)	1	BIU remote
4	50891-07 (2016)	2	Screw
5	57584 (2016)	1	BUI faceplate, 1 gang, w/ring terminal
6	57638 (2016)	1	Cable assembly, modular plug
7	57589 (2016)	1	Cable assembly, light/tv controls
8	5556501 (2016)	2	Screw
9	58107 (2016)	1	Cable assembly, single alarm jack
10	50590 (2016)	2	Screw
11	58103 (2016)	1	Faceplate, single alarm jack, almond
12	58132 (2016)	1	Faceplate, double alarm jack, almond
13	58108 (2016)	1	Cable assembly, double alarm jack
14	32741 (2016)*	3	Wire joint
15	52553 (2016)*	1	Wire tie

\* Item not shown.

**NOTES:**

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# Chapter 6

## General Procedures

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Preventive Maintenance Checklist .....	6 - 7
Tool and Supply Requirements .....	6 - 8

**NOTES:**

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## Cleaning

**SHOCK HAZARD:**

Follow the product manufacturer's instructions. Failure to do so could result in personal injury or equipment damage.

**SHOCK HAZARD:**

Unplug the unit from its power source. Failure to do so could result in personal injury or equipment damage.

**SHOCK HAZARD:**

Do not expose the unit to excessive moisture that would allow for liquid pooling. Personal injury or equipment damage could occur.

**CAUTION:**

Do not use harsh cleansers/detergents, such as scouring pads and heavy duty grease removers, or solvents, such as toluene, xylene, and acetone. Equipment damage could occur.

If there is no visible soilage with possible body fluids, we recommend that you clean the unit with a mild detergent and warm water. If disinfection is desired, you may use a combination cleanser/disinfectant as explained in "Disinfecting" on page 6-4.

## Steam Cleaning

Do not use any steam cleaning device on the unit. Excessive moisture can damage mechanisms in this unit.

## Cleaning Hard to Clean Spots

To remove difficult spots or stains, we recommend that you use standard household cleansers and a soft-bristled brush. To loosen heavy, dried-on soil, you may first need to saturate the spot.

## **Disinfecting**

When there is visible soilage and between patients, we recommend that you disinfect the unit with a tuberculocidal disinfectant. (For customers in the US, the disinfectant should be registered with the Environmental Protection Agency.)

Dilute the disinfectant according to the manufacturer's instructions.

## **Fluid Spills**

When spills occur on the Bed Locator, immediately:

1. Clean the fluid from the Bed Locator. Wear rubber gloves when wiping water away from electrical outlets.
2. Check the operation of devices plugged into the Bed Locator. If any device functions differently after the spill has occurred, perform the steps outlined in "Function Checks" on page 2-4.

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## **Lubrication Requirements**

The Bed Locator has no lubrication requirements.

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## Preventive Maintenance



**WARNING:**

Only facility-authorized maintenance personnel should perform preventive maintenance on the Bed Locator. Preventive maintenance performed by unauthorized personnel could result in personal injury or equipment damage.

The Bed Locator requires an effective maintenance program. We recommend that you perform annual preventive maintenance (PM) and testing for Joint Commission on Accreditation of Healthcare Organizations (JCAHO). PM and testing not only meet JCAHO requirements but will ensure a long, operative life for the Bed Locator. PM will minimize downtime due to excessive wear.

The following PM schedule guides the technician through a normal PM procedure on the Bed Locator. During this PM process, check each item on the schedule, and make the necessary adjustments.

Follow the PM schedule with the corresponding PM checklist. This checklist is designed to keep a running maintenance history and subsequent repair costs for one Bed Locator. However, your facility can modify this checklist or design another to fit your needs. Keeping close records and maintaining the Bed Locator are two effective ways to reduce downtime and ensure the patient remains comfortable.

## Preventive Maintenance Schedule

**Table 6-1. Preventive Maintenance Schedule**

<b>Function</b>	<b>Procedure</b>
Power cables	Inspect all cables for good condition and possible cracking, cuts, or pinches in insulation coverings.
Electrical receptacles	Check all receptacles for proper ground conductor extractive force. The extractive force should be four ounces with a 0.184" (4.67 mm) diameter pin.
Electrical connections	Check all electrical connections for tightness, and tighten as needed.
Electrical leakage	Check all electrical connections for possible current leakage.
Mounting	Ensure all mounting hangers and toggle bolts are securely fastened to the wall.
General appearance	Check cleanliness. See "Cleaning" on page 6-3.

## Preventive Maintenance Checklist

### Table 6-2. Preventive Maintenance Checklist

Date		Function	
Manufacturer	Hill-Rom Company, Inc.		Power cables
			Electrical receptacles
			Electrical connections
			Electrical leakage
			Mounting
			General appearance
Model Number			
Serial Number			
Total Cost for This Page			Labor Time:
			Repair Cost:
		<b>Legend</b> L=Lube C=Clean A=Adjust R=Repair or Replace O=Okay N=Not Applicable Remarks:	

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## Tool and Supply Requirements

The following tools are required to service the Bed Locator:

- Phillips head screwdriver
- Adjustable wrench
- Screwdriver
- Digital multimeter
- 1/2" standard drill
- 1" drill bit
- Chalk line
- Level
- Tape measure
- 7/16" hex nut driver
- 1/2" deep-socket



# Chapter 7

## Accessories

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**NOTES:**

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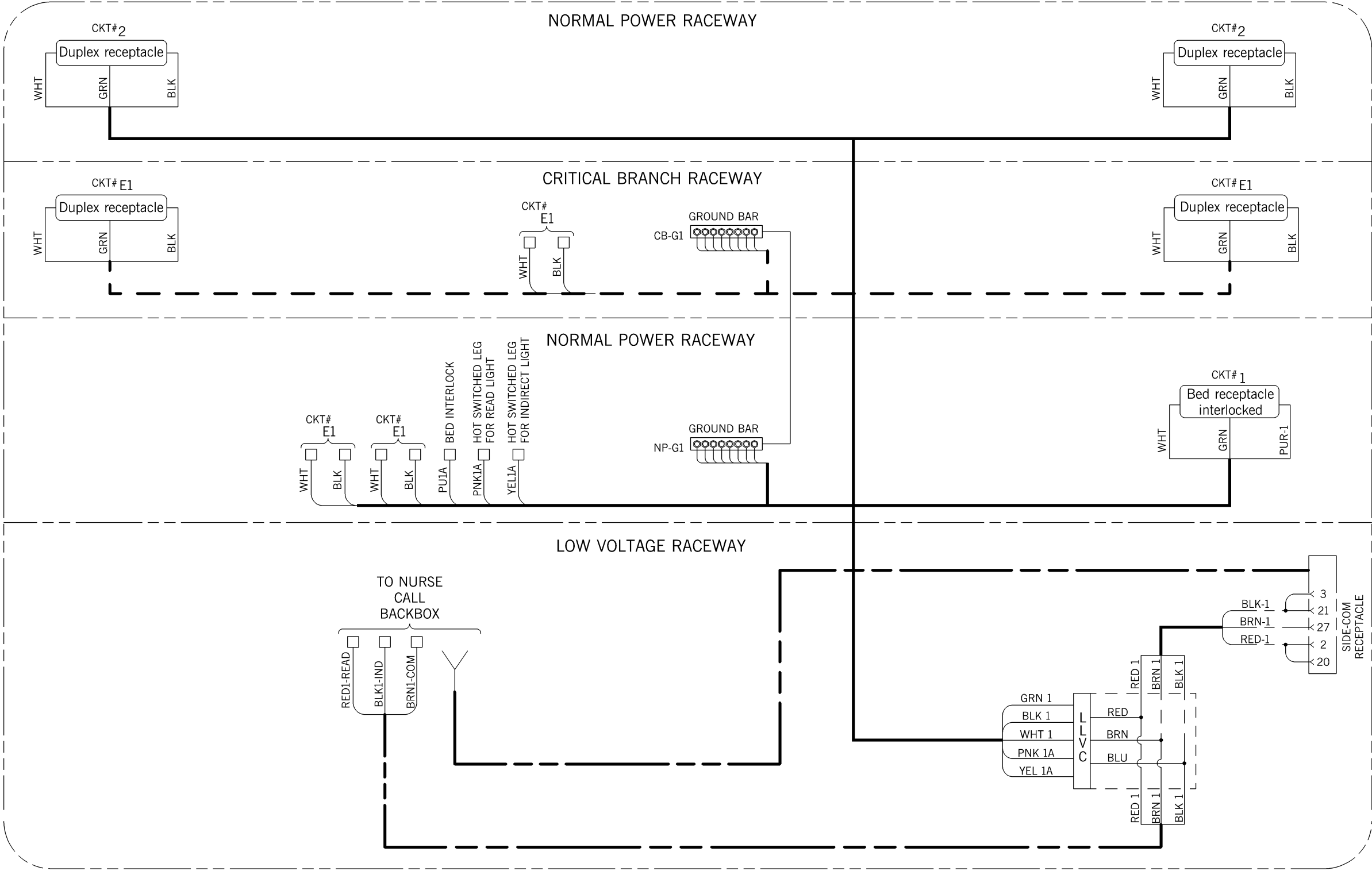
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## Accessories

No accessories are available for the Bed Locator.

**NOTES:**

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WIRING HARNESS NOTES

- 1. ALL POWER RECEPTACLES WIRING WILL BE #12 AWG TYPE AWM. PHASE WIRE BLACK. NEUTRAL WIRE WHITE.
- 2. ALL LIGHTING WIRING WILL BE #12 AWG TYPE AWM. COLOR FOR CONTROL LEADS WILL BE AS NOTED. PHASE WIRE BLACK. NEUTRAL WIRE WHITE.
- 3. DEVICES GROUNDING AND EQUIPMENT BONDING WILL BE IN ACCORDANCE WITH CURRENT NFPA REQUIREMENTS.

NORMAL POWER CABLE

CRITICAL BRANCH POWER CABLE

LOW VOLTAGE POWER CABLE

DENOTES FIELD CONNECTION BY INSTALLING CONTRACTOR