



User-Service Manual

Joerns® Bed Frames

EasyCare® Bed Platform Model ECS

To avoid injury, read user's manual before using.



EasyCare 3



EasyCare 5



EasyCare 7



EasyCare 9

ECS Series
leading bed evolution

WOUND
SOLUTIONS

SAFETY
SOLUTIONS

DESIGN
SOLUTIONS

Important Precautions

⚠ Warning: Possible Injury Or Death. This product is intended for use as an adjustable mattress platform that contours for resident/patient comfort with adjustable height for resident/patient and caregiver convenience. Use of this product in a manner for which it was not designed could result in unproven or unsafe configuration, potentially resulting in injury or death.

⚠ Warning: Possible Injury. Before adjusting bed, ensure that area under and near bed perimeter is free of people and obstructions. Failure to do so could result in injury.

⚠ Warning: Possible Injury. Keep bed in lowest position except when providing care (bathing, clothing changes, etc.). Bed should be at lowest convenient height for entry or exit. Failure to do so could result in injury.

⚠ Warning: Possible Injury Or Death. Resident/patients may become entangled in pendant cord. Resident/patients with reduced mental acuity should not be allowed access to pendant. Unsupervised use of pendant could result in injury or death.

⚠ Warning: Possible Injury Or Death. Bed safe working load is 500 pounds. This is total weight counting resident/patient, mattress, bedding accessories and any other equipment or persons likely to be on bed. Do not exceed 500-pound safe working load. Exceeding the safe working load could result in property damage, injury or death.

⚠ Warning: Possible Injury Or Death. Do not roll bed over abrupt thresholds with resident/patient in bed. Bed is not designed for transporting resident/patient. Transporting resident/patient in the bed could result in injury or death.

⚠ Warning: Possible fire hazard when used with oxygen administering equipment other than nasal, mask or ½ bed length tent type. Not for use with full bed length tent or hyperbaric oxygen chamber. Oxygen tent should not extend below mattress support platform. Lock hand control at foot of bed when using oxygen administering equipment.

⚠ Warning: Possible Shock Hazard. Unplug power cord from wall outlet before performing any maintenance, cleaning or service to the bed. Failure to do so could result in injury or death. **Note:** In case of unexpected movement, unplug bed from any outlet.

⚠ Warning: Possible Shock Hazard. Injury may result from improper routing of the power cord. Always follow the proper factory-installed routing configuration. Failure to do so could result in injury or death.

⚠ Warning: Possible Injury Or Death. Use a mattress that is properly sized to fit mattress deck, that will remain centered on mattress deck relative to State and Federal guidelines. Joerns Healthcare recommends the use of a mattress with minimum dimensions of 35 inches wide and 6 inches deep. Length should match mattress support platform. Use of an improperly fitted mattress could result in injury or death. If using Comfort Extension, see Comfort Extension Manual for proper mattress size.

⚠ Warning: Possible Injury Or Death. If a resident/patient's mental or physical condition could lead to resident/patient entrapment, the mattress support platform should be left in the flat position when unattended. Failure to do so could result in injury or death.

⚠ Warning: An optimal bed system assessment should be conducted on each resident by a qualified clinician or medical provider to ensure maximum safety of the resident. The assessment should be conducted within the context of, and in compliance with, the state and federal guidelines related to the use of restraints and bed system entrapment guidance, including the *Clinical Guidance for the Assessment and Implementation of Side Rails* published by the Hospital Bed Safety Workgroup of the U.S. Food and Drug Administration. Further information can be obtained at the following web address: <http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/default.htm>.

⚠ Warning: Possible Injury Or Death. Use a properly sized mattress in order to minimize the gap between the side of mattress and assist device. This gap must be small enough to prevent resident/patient from getting his/her head or neck caught in this location. Make sure that raising or lowering bed, or contouring the sleep surface, does not create any hazardous gaps. Excessive gaps may result in injury or death.

⚠ Warning: Possible Injury Or Death. Locate mounting brackets for assist devices strictly according to instructions. Gap between head/foot panel and assist device must be small enough or large enough to prevent resident/patient from getting his/her head or neck caught in this location (see specific Assist Device Installation Instructions for more information). If multiple assist devices are used, position each so that gap between them is large enough for trunk and hips to pass through easily. Make sure raising or lowering bed, or contouring sleep surface does not create any hazardous gaps. Failure to do so could result in injury or death. **Important Note:** Powered air mattress surfaces may pose a risk of entrapment. Prior to use, ensure the therapeutic benefits outweigh the risk of entrapment.

⚠ Warning: Possible Injury Or Death. Do not use an assist device if any openings within assist device body allow resident/patient to get his/her head or neck lodged within these openings. Use of assist devices with large openings may result in injury or death.

⚠ Warning: Possible Injury Or Death. Do not use any Joerns® assist device until you verify it is locked in place. Failure to lock assist devices may result in injury or death.

⚠ Warning: Possible Injury Or Death. Do not use any replacement parts not manufactured, marketed or provided by Joerns Healthcare on any Joerns bed. Use of unapproved replacement parts may result in injury or death.

⚠ Warning: Possible Injury Or Death. If using accessories not manufactured, marketed or provided by Joerns Healthcare for Joerns beds, consult with the manufacturer for compatibility and limitations prior to use. Failure to do so may result in injury or death.

⚠ Warning: Possible Shock Hazard. If the bed power cord has a hospital-grade, 3-prong grounding plug, grounding reliability can only be achieved when equipment is connected to an equivalent receptacle marked hospital-grade.

⚠ Warning: Possible Injury. Sitting on or sliding over the Mattress Side Stop can cause skin injury if the bed mattress compresses to less than 1.5 inches under user's weight.

⚠ Warning: Possible Injury. Risk of entanglement or injury may occur if mattress used with Mattress Side Stop does not fill the entire width between stops or which compresses to less than 1.5 inches under user's weight.

⚠ Warning: Possible Injury or Death. Floor locks increase bed stability and resident safety. Make sure the bed is in a locked position with respect to the floor by ensuring the casters are off the floor or if equipped, the UltraLock is in the locked position before attempting any resident transfers. Failure to do so could result in injury or death.

⚠ Warning: Possible Injury. Use caution when activating the UltraLock function. This feature was designed to be activated by your foot. Using your hand to activate the UltraLock system could result in injury.

⚠ Caution: In the absence of line voltage, all bed adjustments can be achieved via an externally available backup battery (Joerns P/N N511). Joerns recommends a minimum of one battery for every twenty five beds per facility.

⚠ Caution: This device complies with EMC requirements of IEC 60601-1-2. Radio transmitting equipment, cellular phones or similar electronic devices, used in proximity of bed, may affect bed performance.

⚠ Caution: Particular precaution must be considered during exposure to strong emission sources such as High Frequency surgical equipment and similar devices. Do not route High Frequency cables on or near device. If in doubt, contact a qualified technician.

⚠ Caution: If you have a Joerns® Care 100, or EasyCare® 3, 5, or 7, run the bed frame to either the highest position or lowest position once a day. This ensures that the bed frame remains level. Joerns UltraCare® XT and EasyCare 9 bed frames have self-leveling electronics and do not require this procedure.

⚠ Caution: The Joerns' EasyCare® Bed Platform is intended for use within an institutional healthcare environment (ie: skilled nursing, transitional care, rehabilitational care, assisted living). Joerns Healthcare recommends compliance to the regulations and guidelines specified to your locality.

This product is only one part of your healthcare bed system. Proper combinations of mattress, head/foot panels and assist devices are needed to minimize the risk of entrapment. For more information, call Customer Care, 800-826-0270.

Save These Instructions

Thank you and congratulations for choosing Joerns EasyCare Bed Platform. Joerns beds are developed with safety, comfort and convenience of both residents/patients and caregivers in mind.

Advanced ergonomic design will provide years of reliable service in your facility.

Table of Contents

Important Precautions	2
Entrapment Information	4
Features & Specifications	5
Assembly	6
Operation	8
Servicing	12
Troubleshooting	14
Maintenance	15
Preventative Maintenance	15
Cleaning	15
Accessories	16
Warranty	20

Bed System Entrapment Information

In April 1999, the U.S. Food and Drug Administration (FDA) in partnership with representatives from the hospital and post-acute bed industry, including Joerns Healthcare, national healthcare organizations, resident advocacy groups, and other federal agencies formed the Hospital Bed Safety Workgroup (HBSW). The workgroup's goal is to improve the safety of bed frames for residents and patients in all health care settings who are most vulnerable to the risk of entrapment. The efforts of the FDA and the HBSW culminated in the FDA's release of recommended guidelines intended to reduce the risk of entrapment, including dimensional limits for critical gaps and spaces between bed system components and clinical guidance for assessment and implementation of bed side rails in various health care settings.

Entrapment zones involve the relationship of bed components often directly assembled by the healthcare facility rather than the manufacturer. Therefore, compliance is the responsibility of the facility.

As the leading manufacturer of long-term care beds and a frontrunner in addressing this critical issue, Joerns Healthcare can offer you the expertise, assistance and products to bring your facility into compliance.

Joerns® Compliance Solutions

Matching the right bed components in order to meet regulatory guidelines can be complex.

That is why Joerns offers a wide array of compliance options. We assist customers in selecting compliant accessories recommended for their specific bed model.

Creating a Safer Care Environment

While the guidelines apply to all healthcare settings, (hospitals, nursing homes and at home), long-term care facilities have particular exposure since serious entrapment events typically involve frail, elderly or dementia patients.

For More Information

To learn more about compliance options with Joerns products, visit our website at www.joerns.com, or contact our Customer Care reps at 800-826-0270 and ask for free informational publications.

To learn more about entrapment zones, assessment methods and guidelines concerning entrapment, contact Joerns Healthcare at 800-826-0270 or consult the FDA website: <http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/default.htm>.

I.D. Label Symbol Definition

-  Attention, Consult accompanying documents
-  Safe Working Load
-  Type B Applied Parts
-  Class II Equipment
-  Protective Earth (ground)

Features and Specifications

Standard Features

76" or 80" Sleep Surface

Travel Range:

- EasyCare® 3: 8.25" to 27"
- EasyCare 5, 7, 9: 7" to 30"

Locking System:

- EasyCare 3 and 5: Roll-in-Low Lock System
- EasyCare 7 and 9: UltraLock Roll at any Height Mobility

Pendant Jacks on both left and right side:

- EasyCare 9, EasyCare 7 and EasyCare 5.
- Optional on EasyCare 3 using EasyCare Plus hand pendant

Cable connection for optional Staff Control
(EasyCare 9 Only)

Whisper Quiet DC Motors

Welded Tubular Frame

Grid Sleep Surface

SoftTone Frame Color

Baseboard Bumper

Wide Stable Base

Heavy-Duty Casters

Mattress Side and End Stops

Patented Lifting Mechanism (US Patent 6473922)

EasyLift Leg Positioner (excludes EasyCare 3)

Battery Pack Cable

Electrical Specifications

EasyCare 3, EasyCare 5 and EasyCare 7

Power: 120 VAC

Frequency: 60 Hz

Current Rating: 3.5 Amps (120V)

Classification: Class I, Type B or Class II, Type B

Mode of Operation: 10% Maximum Duty Cycle
2 minutes on/18 minutes off

Circuit Protection: LA27 Actuators: Auto Reset
Current Sensor

EasyCare 9

Power: 120 VAC

Frequency: 60 Hz

Current Rating: 4.0 Amps (120V)

Classification: Class I, Type B or Class II, Type B

Mode of Operation: 10% Maximum Duty Cycle
2 minutes on/18 minutes off

Circuit Protection: LA27 Actuators: Auto Reset
Current Sensor

Environmental Conditions

Operating Conditions:

Ambient Temperature: +10°C to +40°C

Relative Humidity: 30% to 75% Non-Condensing

Atmospheric Pressure: 700 hPa to 1060 hPa

Storage and Shipping Conditions:

Ambient Temperature: -40°C to +70°C Relative

Humidity: 10% to 100%

Atmospheric Pressure: 500 hPa to 1060 hPa

Accessories And Options

76", 80" and 84" Joerns® Mattresses

Joerns End Panels

F14SC Assist Device Set

F025 Assist Handle

F026 Assist Device

F028 Deluxe Assist Device

Staff Control

IV Rod

Floor Mat

Emergency Battery Backup System

Battery Backup 24V

Battery Charger 24V

Wall Mounting Bracket for Charger

Trapeze and Trapeze Adapter

4" Extension

Drainage Bag Holder

Bed Transport Bar

EasyCare Plus Hand Pendant (EasyCare 3)

Bed Identification Numbers

When ordering parts or when contacting our Customer Care Department, please include the bed's model, product and serial numbers, found on the identification labels. The identification labels are located on bed frame under the sleep deck foot section.

Description:

EasyCare 3

76" 83.0"L x 35.0"W x 8.25"H

80" 86.5"L x 35.0"W x 8.25"H

EasyCare 5 and EasyCare 7

76" 83.0"L x 35.0"W x 7.0"H

80" 86.5"L x 35.0"W x 7.0"H

EasyCare 9

76" 82.0"L x 35.0"W x 7.0"H

80" 85.5"L x 35.0"W x 7.0"H

Weight

EasyCare 3 and EasyCare 5 220 lbs.

EasyCare 7 279 lbs.

EasyCare 9 279 lbs.

Maximum Back Angle 65° to horizontal

Maximum Knee Angle 35° to horizontal

Maximum Knee To Leg Angle 45°

Minimum Height Mattress Support Surface

EasyCare 3 8.25"

EasyCare 5 7.00"

EasyCare 7 7.25"

EasyCare 9 7.25"

Maximum Height Mattress Support Surface

EasyCare 3 27.00"

EasyCare 5 30.00"

EasyCare 7 30.50"

EasyCare 9 30.50"

Safe Working Load 500 lbs.

Assembly

Installation Of Head and Foot Panels

(For more information refer to Bed Panel Installation Sheet)

Tools required: Phillips head screwdriver

Head Panel Installation:

1. The head panel has a label on back.
2. Lay the panel on a soft surface, front face down.
3. The head panel brackets are the longer of two sizes (Figure 1).
4. Install the head panel brackets with four screws provided. The bracket offset should face up (Figure 2). Do not tighten until after fitting the mounting brackets into the bed sockets.
5. Go to final assembly below.

Frame-Mounted Foot Panel Installation:

1. The foot panel does not have a label on back. The foot panel will have staff control electronics, if staff control was ordered.
2. Lay the panel on a soft surface, front face down.
3. The foot panel brackets are the shorter of two sizes (Figure 1).
4. Install the foot panel brackets with the four screws provided. The bracket offset should face up (Figure 2). Do not tighten until after fitting the mounting brackets into the bed sockets.
5. Go to final assembly below.

Final Assembly Step for Head Panel and Frame-Mounted Foot Panel:

1. Insert the head and foot panel as shown with mounting hardware facing the head of the bed (Figure 3).
2. Tighten all screws with the panels in place.
3. The panels should slip in and out of their sockets easily and securely.

Installation Of Baseboard Bumper

Recommended Tool: Rubber mallet

1. Place the baseboard bumper as shown (Figure 4). Example shown is EasyCare® 5.
2. Tap into place with a rubber mallet or press firmly with the sole of your shoe until it locks into place as shown (Figure 5). Example shown is EasyCare 5.

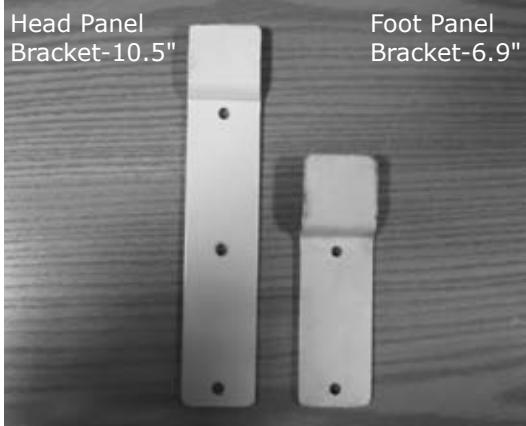


Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

Installation of Mattress Stop (Figure 6)

Mattress Stop is designed to help keep mattress from sliding laterally on the mattress support platform. Mattress stops will be one of two designs, either fixed in place with screws or snaps in place.

Installation Steps (for snap-in type)

1. Locate the holes in the inside tube at the foot end of the mattress support platform.
2. Insert one side of the mattress side stop into the hole on one side.
3. Compress the mattress side stop and insert into the opposite hole on the foot end of the mattress support platform.
4. Locate the holes in the inside tube at the head end of the mattress support platform.
5. Insert one side of the mattress side stop into the hole on one side.
6. Compress the mattress side stop and insert into the opposite hole on the head end of the mattress support platform.

Installation Steps (for fixed-in-place type)

Required tool - T27 TORX driver

1. Locate the screws in the holes in the inside tube at the foot end of the mattress support platform (Figure 7).
2. Remove the screws using a T27 torx driver, do not discard the screws.
3. Position the mattress stop as shown and reinstall the screws removed in step 2 (Figure 8).
4. Locate the screws in the holes in the inside tube at the head end of the mattress support platform (Figure 7).
5. Remove the screws using a T27 torx driver, do not discard the screws.
6. Position the mattress stop as shown and reinstall the screws removed in step 4 (Figure 8).

IV Sockets

Joerns® EasyCare® Bed Platform has four IV sockets as standard equipment. There are two sockets at head end of bed and two at foot end (Figure 9). The IV sockets are compatible with Joerns IV poles and most $\frac{1}{2}$ " IV poles.



Figure 6

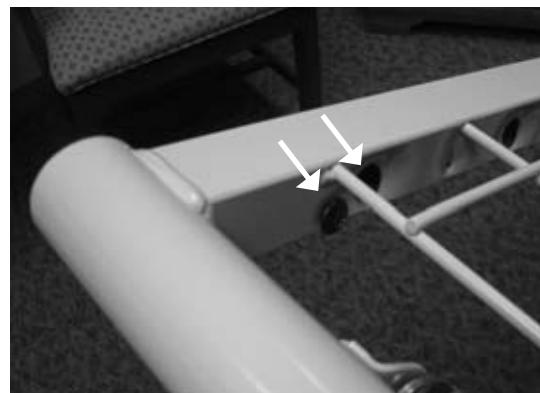


Figure 7



Figure 8



Figure 9

Installation of Staff Control Panel (Optional)

Basic Pendant: EasyCare 3 (Figure 10)

1. Mount foot panel on bed as indicated in previous instructions.
2. Plug patch cable and pendant cable into proper jacks on foot panel as shown (Figures 11 and 12).
3. Attach circuit board cover (not shown) with Velcro® according to instructions included with staff control panel assembly.



Figure 10

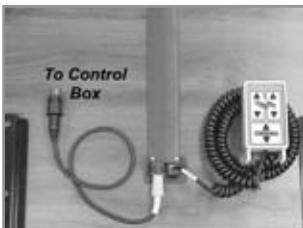


Figure 11



Figure 12

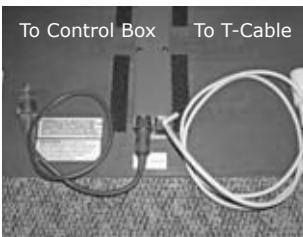


Figure 13



Figure 14



Figure 15



Figure 16



Figure 17



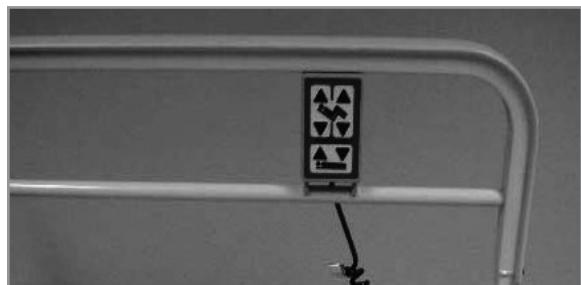
Figure 18

EasyCare Plus Pendant: EasyCare 3, 5 and 7 (Figure 10)

1. Mount foot panel on bed as indicated in previous instructions.
2. Plug cable from the control box and the cable from the pendant into the proper sockets on the foot panel as shown (Figures 12 and 13).
3. Attach circuit board cover (not shown) with Velcro® according to instructions included with staff control panel assembly.

EasyCare® 9 (Figure 14)

1. Mount the foot panel on the bed as indicated in previous instructions.
2. Unscrew the cap located under the bed frame at the foot end (Figure 15), and secure the cable plug, with the arrow facing up into the jack (Figure 16).
3. Ensure that the cable plug is fully inserted into the jack (Figure 17).
4. Screw on the cap from the cable to secure the cable (Figure 18).



Basic Pendant - Figure 19

Basic Pendant Operation (Figure 20)

Head Operation

- 1 - Push button to raise Back
- 2 - Push button to lower Back

Bed Height Operation

- 3 - Push button to raise Bed
- 4 - Push button to lower Bed

Knee Operation

- 5 - Push button to lower Knee
- 6 - Push button to raise Knee

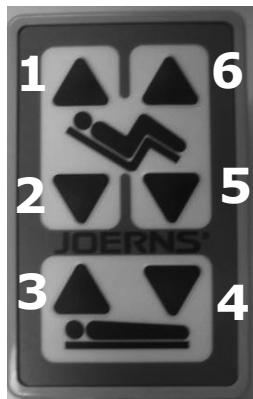


Figure 20

Operation

Pendant Operation

EasyCare 3, 5 and 7

Your Joerns® EasyCare 3, EasyCare 5, or EasyCare 7 bed comes with one of the pendants shown below (Figures 19 through 21).

If you have the EasyCare Plus pendant shown in Figure 21, your pendant will plug into a jack under either side of the seat pan. In this case:

1. Unscrew the cap (Figure 23) and insert the cable plug, with the arrow facing up into the jack (Figure 24).
2. Ensure that the cable plug is fully inserted into the jack (Figure 25).
3. Screw on the cap from the cable to secure cable (Figure 26).

EasyCare Plus Pendant Operation (Figure 21)

Head Operation

- 1 - Push button to raise Back
- 2 - Push button to lower Back

Bed Height Operation

- 3 - Push button to raise Bed
- 4 - Push button to lower Bed

Knee Operation

- 5 - Push button to lower Knee
- 6 - Push button to raise Knee



Figure 21

Standard Pendant Operation (Figure 22)

Head Operation

1. Push button to raise Back
2. Push button to lower Back

Bed Height Operation

3. Push button to raise Bed
4. Push button to lower Bed

Knee Operation

5. Push button to raise Knee
6. Push button to lower Knee

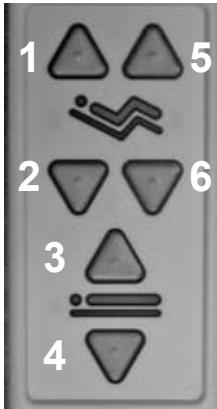


Figure 22

EasyCare® 9

1. Your EasyCare 9 bed comes standard with a pendant (Figure 22). The pendant plugs into a jack under either side of the seat pan.
2. Unscrew the cap (Figure 23) and insert the cable plug, with the arrow facing up into jack (Figure 24).
3. Ensure that the cable plug is fully inserted into the jack (Figure 25).
4. Screw on the cap from the cable to secure cable (Figure 26).
5. The pendant has raised, high-contrast buttons and graphics.

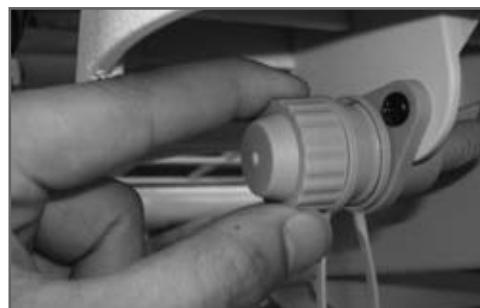


Figure 23



Figure 24



Figure 25



Figure 26

Joerns® Bed Frames

EasyCare® ECS Series

Staff Control Panel Operation (Optional)

EasyCare® 3, 5 and 7 (Figure 27)

The Staff Control Panel allows caregivers to lock out all of the bed functions individually. Caregivers can also operate the bed from this panel without walking to the bed side.

1. To lock out a function, press panel's "no pendant" (Figure 27: #1, #3 and #5) icon. Illuminated red LED light indicates that the function is now locked out.
2. To unlock a function, press panel's "pendant" (Figure 27: #2, #4 and #6) icon. Red LED is no longer illuminated, signaling that the pendant can now operate that specific function.

EasyCare 9 (Figure 28)

The Staff Control Panel allows the caregivers to operate the bed from the foot panel without walking to the bedside. The caregiver can also individually lock out all functions, both Pendant and Staff Control.

1. To lock out a function, press and hold the "Lock" graphic on the panel and push the function to lock out. Illuminated amber LED indicates that the function is now locked out.
2. To unlock a function, press and hold the "Lock" graphic on the panel and push the function to unlock. Amber LED is no longer illuminated, signaling that the function is now operable.

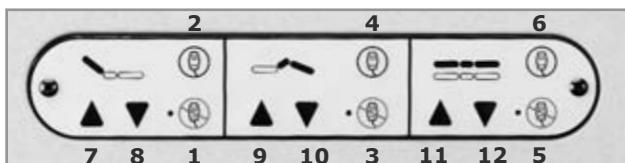


Figure 27

Pendant Lockout and Bed Operation

1. Push button to lock out Back
2. Push button to unlock Back
3. Push button to lock out Knee
4. Push button to unlock Knee
5. Push button to lock out Hi/Lo
6. Push button to unlock Hi/Lo
7. Push button to raise Back
8. Push button to lower Back
9. Push button to raise Knee
10. Push button to lower Knee
11. Push button to raise Bed
12. Push button to lower Bed

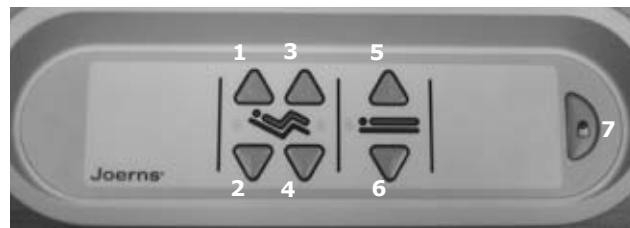


Figure 28

Standard Staff Control

1. Push button to raise Back
2. Push button to lower Back
3. Push button to raise Knee
4. Push button to lower Knee
5. Push button to raise Bed
6. Push button to lower Bed
7. Push and hold to change lockout status in combination with another function button.

Roll in Low Lock System

EasyCare 3 and 5

1. To keep the bed from rolling when in the lowest position, press down on the locking lever to lock casters (Figure 29).
2. The standard caster set comes with two locking casters placed at opposing corners of bed.

	Mobile Position	Locked Position	Swivel Casters
Roll in Low Lock System	Low only	Any Height (casters must be locked in Low)	Head & Foot (in Low position only)



Figure 29

UltraLock System

EasyCare® 7 and 9

The Joerns® UltraLock feature provides roll at any height functionality to the EasyCare 7 and EasyCare 9 bed frame.

- The EasyCare 7 and EasyCare 9 beds are equipped with a single UltraLock. The foot end has swivel casters when the UltraLock is engaged and rollers at the head.
1. There are three possible locations with which to operate the UltraLock on each UltraLock assembly (Figure 30).
 2. To lock the bed using the UltraLock, place your toe under the pedal and lift upward (Figure 31). The label indicates the locked position by a red symbol (Figure 32).
 3. To unlock the UltraLock, place the ball of your foot on any pedal and push down (Figure 33). The label indicates the mobile position by a green symbol (Figure 32).

⚠ Warning: Possible Injury. Before leaving the bed unattended, check that the UltraLock feature is in the locked position. Never leave an unlocked bed unattended.

⚠ Warning: Possible Injury. Check that the UltraLock feature is in the locked position before allowing the resident to enter or exit the bed.

For best practices, the UltraLock feature should be locked at all times, except when the bed is being moved.

Hi-Lo Speed

	EasyCare 3 EasyCare 5 EasyCare 7	EasyCare 9
Unloaded	49 seconds	33 seconds
With 200lbs	52 seconds	35 seconds

Tolerance \pm 3 seconds

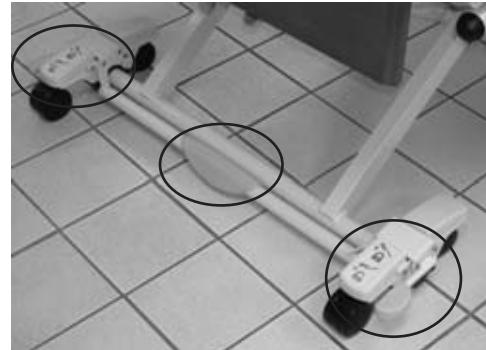


Figure 30



Figure 31



Figure 32



Figure 33

EasyLift Leg Positioner Operation

EasyCare® 5, 7 and 9

1. To raise: Grasp the bed's foot deck and raise to the desired position (Figure 34).
2. To lower: Grasp the foot end of the bed's deck and raise $\frac{1}{2}$ -inch to $\frac{3}{4}$ -inch above present notch, then lower gently;
3. Or, grasp the foot end of the bed deck, raise to the highest position, and lower gently.



Figure 34

Servicing

EasyCare 3, 5 and 7

⚠ Warning: Possible Shock Hazard. Unplug the power cord from the wall outlet before performing any maintenance/service to the power box.

Note: Overload protection is achieved via current sensing technology, which will reset automatically if any bed function fails to operate. Ensure that the bed is not overloaded or constrained from movement.

Actuator and Control Box Information

Cable and Port Identification (Figures 35 and 36)

1. Back Actuator (yellow)
 2. Knee Actuator (blue)
 3. Hi-Lo Actuator (red)
 4. Hi-Lo Actuator (red)
- HB. Pendant (green)
B. Emergency Battery
C. AC Power In

Power Cord and Grounding Connectors

Inspection of power cord and grounding connectors should be conducted on a yearly basis to ensure efficient bed operation.

1. Check the power cord to make sure it has not been damaged. If the power cord needs replacement due to damage, remove the bed from use/service until the power cord has been replaced.
2. Check the grounding connectors to ensure they remain intact and are securely fastened to their intended connection point.



Figure 35

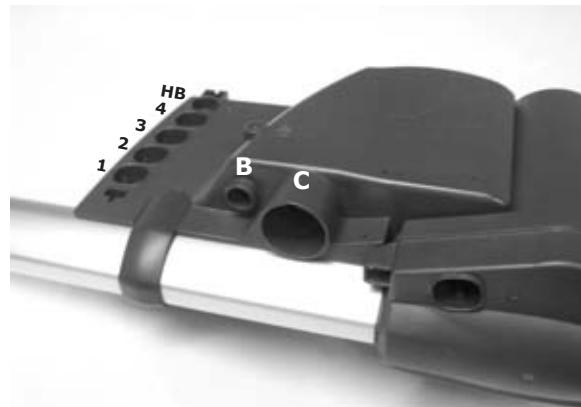


Figure 36

EasyCare® 9

⚠ Warning: Possible Shock Hazard. Unplug the Control Box from the wall outlet before performing any maintenance or service to the Control Box.

Actuator And Control Box Information

Cable and Port Identification (Figures 37 and 38)

1. Foot Leg Hi/Low Actuator (red)
2. Back Actuator (yellow)
3. Head Leg Hi/Low Actuator (orange)
4. Knee Actuator (blue)
5. Control Harness (green)
6. Emergency Battery Pack Socket
7. AC Power in

Note: The Actuators and Control Box contain no serviceable parts. Overload protection is achieved via current sensing technology, which will automatically reset. If any bed function fails to operate, check to see if the bed is overloaded or constrained from movement.

To Remove Control Box

1. Plugs and outlets are numbered and color-coded so they can be easily reinstalled later (See Actuator And Control Box Information).
2. Unplug from wall outlet.
3. Unplug all actuator cords and pendant/staff control plug.
4. Remove the control box retaining clip (Figure 39).
5. Slide the Control Box off the actuator assembly.
6. To replace the Control Box, reverse these instructions.



Figure 37



Figure 38



Figure 39

To Remove Actuator

Recommended Tools: Screwdriver, Hammer, Masking Tape, Zip Ties

1. Identify the actuator to be replaced.
2. Tip the bed on its side to replace high/low actuator(s).
3. Unplug the actuator cord.
4. The actuator is held in place by two pins. Use a screwdriver to remove the lock ring on each pin.
5. Slide the pins out of holes. If necessary, use the hammer to tap out the pins.
6. You may now replace the actuator(s).
7. To reassemble the bed, reverse the previous steps, making note of the following two important items:
 - Assemble the pin and lock rings as originally installed.
 - Zip-ties should be replaced, with cords returned to their original position and routing direction to the control box.

To Remove AC Power Cable

Recommended Tools: Small Screwdriver, Masking Tape, Zip Ties, 5/16" Nut Driver

1. Raise the bed so that there is about 27 inches of clearance between the floor and the mattress support platform of bed.
2. Unplug the power cable from the outlet.
3. Cut the zip-ties that hold the power cable to the frame. Tape the remaining cables in their original position. It is very important to keep the actuator cables routed along the frame in their original factory-installed positions. If this step is not followed, damage to cables or electric shock may result.
4. Detach the ground wire from the bed frame if equipped.

⚠ Warning: Possible Shock Hazard. Injury may result from improper power cable routing. Always follow proper factory-installed routing configuration. Be sure to check condition of the power cable on a regular basis. Do not use damaged or frayed power cables.

5. Using a small screwdriver, alternately depress the small red latch tabs above and below AC receptacle on the control box. Simultaneously, pull gently outward on the power cable where it connects to the control box, until the plug comes out.
6. Plug the replacement cable into the control box until it latches. Attach the ground wire to the bed frame.
7. Re-route the power cable along the frame in the same position as the original routing.
8. Replace zip-ties along with cables in their original position and routing to the control box. If this step is not followed, damage to the cables or electric shock may result.

Troubleshooting

Any loss of electrical function should be investigated with the following steps:

Event	Possible Remedies
Bed not responding to pendant control	<ol style="list-style-type: none"> 1. Check lockout status. 2. Check connection is fully inserted with cable secured. 3. Check the bed is plugged into power source and control box green light is illuminated 4. Switch the pendant with a new pendant or one from a bed that is functioning normally. 5. If these steps fail to resolve the problem, call Technical Support at 800-826-0270.
Bed not responding to Staff Control	<ol style="list-style-type: none"> 1. Check lockout status 2. Check connection is fully inserted with cable secured. 3. Check the bed is plugged into power source and control box green light is illuminated. 4. If these steps fail to resolve the problem, call Technical Support at 800-826-0270.
All Staff Control lockout indicators flashing (EasyCare® 9)	<ol style="list-style-type: none"> 1. Unplug bed for 60 seconds and plug back in. 2. Push and hold Hi-Lo up and down on staff control or pendant simultaneously until flashing stops (No more than 15 seconds). 3. If these steps fail to resolve the problem, call Technical Support at 800-826-0270.
Staff Control Hi-Lo lockout indicator flashing (EasyCare 9)	<ol style="list-style-type: none"> 1. Thermal overload condition. This should self-correct in 2 minutes or less. Do not surpass 10% duty cycle (2 min on/ 18 min off). 2. If these steps fail to resolve the problem, call Technical Support at 800-826-0270.

Note: Electrical damage can occur if a non-approved pendant is connected to the electrical system.

Maintenance

Maintenance/inspection Information:

Visually inspect the bed and accessories for broken welds or cracks and check for loose hardware on a monthly basis.

If any broken welds or cracks are found, remove bed from service immediately and replace affected part(s). If necessary, contact Technical Support, 800-826-0270, for assistance. Tighten any loose hardware.

Preventative Maintenance

To ensure maximum life of your product, follow all warnings and cautions in the User Manual and maintain your bed with care, as outlined below. The maintenance required will be dictated by your bed's usage and care – a thorough inspection should be conducted monthly.

To Maximize Service Life

1. If you have a Joerns® Care 100, or EasyCare® 3, 5, or 7, run the bed frame to either the highest position or lowest position once a day. This ensures that the bed frame remains level. Joerns UltraCare® XT and EasyCare 9 bed frames have self-leveling electronics and do not require this procedure.
2. Keep the bed clean.
3. Observe bed operation and report any discrepancies or problems to Joerns Healthcare Technical Support at 800.826.0270
4. After initial week of use, check all threaded fasteners for looseness, and make sure all pins are in their normal location and fastened securely. Check monthly for loose bolts, nuts, pins and other retaining hardware. Tighten any loose hardware, and contact Joerns Healthcare to order any appropriate service parts.
5. Make sure each inspection includes the underside of the bed frame and mattress support platform.

6. Visually inspect the bed frame and accessories for any cracking, bending, or hole enlargement. If found, contact Joerns Technical Support at 800.826.0270, remove the bed from service immediately, and replace the affected parts.
7. Check wiring for proper connections and damage (fraying, kinking, or deterioration). Report any damage to Joerns Technical Support at 800.826.0270
8. Check actuators for correct mounting at attachment points and ensure all related pins are mounted securely and properly to the bed frame. Actuators are not serviceable, but are replaceable if required.
9. Lubricate pivot point, pins and bolts as required. The recommended lubricant is Joerns-approved grease #12500013, available from Joerns Technical Support at 800.826.0270.

If any discrepancies are noted during inspection, they must be corrected before continuing bed frame use. Major service and repairs must be performed by authorized Joerns Healthcare Technical Support, which you may contact at 800.826.0270.

Cleaning

⚠Caution: Possible damage to electrical parts, and/or shock hazard.

1. Clean all the electrical components (motors, control box, pendant and cords) on your Joerns® bed with damp, well-wrung out cloth. Excess water in or on electrical parts, could damage these components. Do not submerge the pendant in liquid.
2. Your Joerns bed features a durable, baked-on epoxy finish that is easily cleaned with a mild solution of antiseptic cleaner and warm water. Read and follow all label instructions on your cleaning products.
3. Wood veneer surfaces should be maintained by cleaning with furniture cleaner or polish.

Accessories

All Accessories

⚠ Warning: Possible Injury Or Death. Injury or death may result from improper use of bed accessories. Consult accessory manufacturer for compatibility, proper installation and use instructions.

Trapeze And Trapeze Adapter

⚠ Warning: Possible Injury Or Death. Improper installation of the Trapeze Adapter could alter or dislodge the head panel position, increasing the risk of injury or suffocation.

⚠ Warning: Possible Injury Or Death. Follow the manufacturer's directions when installing the Trapeze Bar. Improper installation of the Trapeze Bar on the Trapeze Adapter could cause the Trapeze Bar to disconnect/collapse or otherwise fail, resulting in injury or death.

⚠ Warning: Possible Injury Or Death. A minimum of 1-inch clearance between the bottom of the Trapeze Bar and the floor is required when the bed is in its lowest position. Failure to do so could damage the floor and/or cause the bed to become unstable, resulting in injury or death.

4-Inch Extension

⚠ Warning: Possible Injury Or Death. Use a mattress long enough so the gap between the mattress and head/ foot panel is small enough to prevent the resident from getting his/her head or neck caught in these locations. Failure to do so could increase risk of suffocation or result in injury or death.

⚠ Warning: Possible Injury. The extender is designed for use with a foot panel. Sitting on or sliding over the extender without a foot panel installed could cause the extender to fail, resulting in injury or death.

Drainage Bag Holder

⚠ Warning: Possible BioHazard. Prior to use, consult the Drain Bag manufacturer's installation and use instructions. Failure to do so could result in a bag puncture, resulting in a potential biohazard.

⚠ Warning: Possible Injury Or Death. Many items that attach to the Holder are gravity fed and must be below the bed user to function. Do not allow items attached to the Holder to rest or be positioned on the floor where they might be stepped on and adversely affected or damaged. Exercise particular caution when the bed is moved to its lowest position as items attached to the Holder at that height are especially at risk. Failure to do so could result in injury or death.

⚠ Warning: Possible Injury Or Death. Make sure items hung on this holder have proper clearance and are not pinched or caught during bed adjustment. Failure to do so could result in injury or death.

Bed Transport Bar

⚠ Warning: Possible Injury. The Bed Transport Bar must be used according to installation and user instructions. Improper use could cause it to disconnect, resulting in a fall or loss of control of the bed.

Trapeze (Figure 40)

1. We recommend using the Joerns® Trapeze with the Joerns Trapeze Adapter.
2. Install the Trapeze assembly according to manufacturer's directions included with the Trapeze.

Trapeze Adapter (Figure 41)

1. The Trapeze Adapter is designed to allow attachment of the Trapeze system to the EasyCare® Bed. Prior to use, please read important warnings related to this option and follow all instructions below.
2. Install the Trapeze Adapter according to the supplied instructions. If needed, call Technical Support at 800-826-0270 for instructions.
3. Install the trapeze assembly onto the Trapeze Adapter according to the trapeze manufacturer's instructions.
4. Operate the bed from its highest through lowest positions to ensure proper clearance and operation. Some trapeze systems may not be suitable for use with the EasyCare Bed, due to its low operating height.
5. Adjustment and use of a Trapeze should be in accordance with instructions from a healthcare professional (doctor or therapist).
6. Do not exceed the maximum load condition listed on installation instructions.

4-Inch Extender (Figure 42)

1. The 4-Inch Extender is designed to extend the mattress support platform about four inches to allow the use of an 84-inch mattress on an 80-inch mattress support platform or an 80-inch mattress on a 76-inch mattress support platform. Prior to use, please read important warnings related to the Extender and follow instructions below.
2. Install the 4-Inch Extender according to supplied instructions. If needed, call Technical Support at 800-826-0270 for instructions.
3. Make sure the increase in overall length does not produce a safety hazard or impair accessibility in the room. Place the new mattress against the Mattress Stop and be sure the mattress covers the entire mattress support platform length.



Figure 40



Figure 41



Figure 42

Drainage Bag Holder (Figure 43)

1. The Drainage Bag Holder is designed as an attachment point for items such as urine collection bags. Make sure items attached to holder are safely secured. Prior to use, please read important warnings related to the Drainage Bag Holder and follow all instructions below.
2. Install the Drainage Bag Holder and attach items to the Holder according to supplied instructions. If needed, call Technical Support at 800-826-0270 for instructions.
3. It is important to operate all bed functions through their entire ranges to ensure that items attached to the Holder have proper clearance and are not pinched or caught.
4. Attach the Holder only to the point and position outlined in installation instructions. Operate all bed functions through their full ranges to ensure that items attached to the Holder have proper clearance and are not pinched or caught.
5. Many items that attach to the Holder are gravity fed and must be below bed user to function. Do not allow items suspended from the Holder to rest on the floor, particularly when the bed is in its lowest position. Otherwise, a safety condition may occur or the function of attached items may be impacted.



Figure 43

Bed Transport Bar (Figure 44)

1. The Bed Transport Bar is designed to ease moving the EasyCare® Bed, particularly when it is lowered onto its casters. **Note:** The EasyCare Bed is not designed for use as resident/patient transport devices. Prior to use, please read important warnings related to the Bed Transport Bar and follow all instructions below.
2. Install the Bed Transport Bar according to the supplied instructions. If needed, call Technical Support at 800-826-0270 for instructions.
3. When using the Bed Transport Bar to move beds, always push down and forward on the handle. Pushing up or attempting to use the Bed Transport Bar to lift the bed, especially when crossing over thresholds, may cause it to disconnect from the bed, resulting in loss of control of the bed.
4. Take extra care when moving the bed (remember, do not move the bed while occupied by the resident) on any sloped surface. Moving a bed on a sloped surface requires two people, one at each end of the bed. Never use the Bed Transport Bar to move the bed on a slope that exceeds ANSI and/or ADA requirements for accessibility.



Figure 44

Battery Back-up

Battery Backup Includes:

- Charger with Power Cord (with Cord Clip)
- Battery with Cable
- Wall Mount Bracket (with two screws)
- User Instructions

Battery Charger

1. Simply mount the Battery Charger in a central location convenient to caregiver staff. Plug the Battery Charger into any standard wall socket (110V; 50-60 Hz.).
2. Insert the Battery in the Battery Charger.
 - Green light -- indicates main power is on
 - Yellow light -- indicates Battery is charging
3. After about four hours of charging, the yellow light goes off and the Battery will be fully charged. **Note:** We recommend that users charge up the Battery immediately upon receipt.
4. The Battery has a useful life of about 3.5 years, depending upon usage. It is recommended to discharge the Battery as little as possible and to recharge quite frequently (by keeping the Battery connected to the Battery Charger when not in use), to provide the longest Battery life.
5. When the Battery needs replacing, dispose of the old Battery in the same manner you would dispose of a car (lead acid) battery.

Powering the EasyCare Bed with

Battery Backup:

Attach the battery to the Battery Pack Patch Cord Socket at the bed foot end (Figure 45).

Depending on the Battery condition and load on the bed, one battery can typically raise and lower the bed, constituting one cycle, 20 to 25 times on single, full charge.

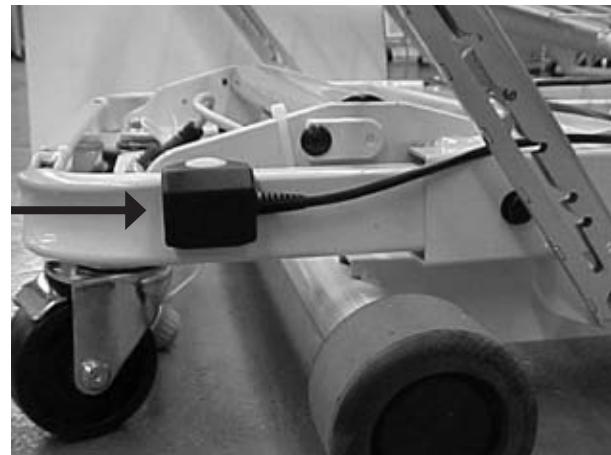


Figure 45



Joerns Healthcare Warranty Program

for Joerns® EasyCare Series Bed, Model ECS

Joerns EasyCare Series Model ECS, are guaranteed for a period of three years from the date of delivery, against defects in materials and workmanship, under normal use and service.

This three-year warranty includes all mechanical and electrical components.

Steel structural components on beds are covered under warranty for a period of 15 years from the date of delivery.

Welds are covered under warranty for the lifetime¹ of the product.

Damage caused by use in unsuitable environmental conditions, abuse or failure to maintain the product in accordance with user and service instructions is not covered.

Any alteration, modification, or repair unless performed by, or authorized in writing by, Joerns Healthcare, will void this warranty.

Parts

Joerns beds contain various parts that wear from normal use. These parts, such as DC batteries, are not covered under the three-year warranty but are covered for 90 days after date of delivery.

Joerns Healthcare's obligation under this warranty is limited to supplying replacement parts, servicing or replacing, at its option, any product which is found by Joerns Healthcare to be defective.

Warranty replacement parts are covered by the terms of this warranty until the product's original three-year warranty period expires.

When requested by Joerns Healthcare, parts must be returned for inspection at the customer's expense. Credit will be issued only after inspection.

Service

Most service requests can be handled by the facility Maintenance Department with assistance from the Joerns Healthcare Product Service Department.

Most parts requested can be shipped next day air at the customer's expense.

Should a technician be required, one will be provided by Joerns Healthcare, at our discretion. Only the Joerns Healthcare Product Service Department can dispatch authorized technicians.

This warranty is extended to the original purchaser of the equipment.

¹ Weld lifetime defined as 20 years.