

Operation Guide

UNLOADING A COT FROM A VEHICLE MANUALLY (POWER-LOAD POWER LOSS OR SYSTEM ERROR) (CONTINUED)

3. Press the manual release button on the Power-LOAD control panel as shown in Figure 51 to lower the lifting arms until they are clear of the cot.
4. Lift one of the red manual cot release handles at the head end of Power-LOAD to unlock the cot as shown in Figure 52.



Figure 51



Figure 52

5. Raise the lifting arms and guide the trolley into the vehicle patient compartment until the arms are far enough in to not interfere with the vehicle doors.
6. Following the call, remove the vehicle from service to diagnose and repair Power-LOAD.

Operation Guide

LOADING A COT INTO A VEHICLE MANUALLY (POWER-LOAD POWER LOSS OR SYSTEM ERROR)

WARNING

- Loading and/or unloading an occupied cot into a vehicle requires a minimum of two (2) trained operators.
- Make sure that all occupants enter the vehicle patient compartment after the Power-LOAD compatible cot has been loaded into the vehicle patient compartment.

1. Lift the vehicle bumper to the raised position (if equipped).
2. Ensure that the trolley is located at the head end of the vehicle patient compartment with the lifting arms down. If not, raise the lifting arms and guide the trolley into the vehicle patient compartment until Power-LOAD locks into position with the lifting arms down.
3. Make sure that the cot retractable head section is fully extended and locked.
4. Place the cot in a loading position (any position where the loading wheels meet the vehicle patient compartment floor height).
5. Roll the cot to the open vehicle patient compartment.
6. Push the cot forward until the loading wheels are on the vehicle patient compartment floor and the safety bar passes the safety hook as shown in Figure 53.



Figure 53

Note: For maximum clearance to lift the base, pull the cot out until the safety bar engages the safety hook.

For models 6500/6506 and 6510/6516 with the Power-LOAD option:

- Grasp the cot frame at the foot end.
- Lift the foot end of the cot and press and hold the retract (-) button on the cot control switch to fully retract the cot undercarriage.

Note: The cot undercarriage will retract in less than three seconds.

For models 6085/6086 with the Power-LOAD option:

- Operator 1 (Foot End) – Grasp the cot frame at the foot end. Squeeze and hold the cot manual release.
- Operator 2 (Side) – Stabilize the cot by placing one hand on the outer rail. Grasp the base frame. After the foot end operator has lifted the cot and squeezed the cot manual release, retract the undercarriage with one hand and hold it in place.
- Operator 1 (Foot End) - Release the cot manual release to lock the undercarriage in the retracted position.

CAUTION

To avoid the risk of equipment damage, do not push the cot into the vehicle patient compartment until the cot base is fully retracted.

7. Push the cot into the vehicle patient compartment until the cot locks into Power-LOAD.
8. Ensure that the cot is locked into Power-LOAD by firmly pulling on the foot end of the cot.
9. Following the call, remove the vehicle from service to diagnose and repair Power-LOAD.

Operation Guide

UNLOADING A COT FROM A VEHICLE MANUALLY

WARNING

- Loading and/or unloading an occupied cot into a vehicle requires a minimum of two (2) trained operators.
- Power-LOAD is only an assisting device. Operators are responsible for evaluating each situation to determine how to distribute and lift the weight being transported. Always use both hands when handling the cot.
- When handling weights over 400 lb (181 kg), ensure there are enough operators to handle the forces required for loading/unloading. To increase safety, users should attempt to perform loading/unloading on flat surfaces.

1. Lift the vehicle bumper to the raised position (if equipped).
2. Press and hold the release lever at the foot end of the Power-LOAD system and pull to remove the cot from the vehicle patient compartment as shown in Figure 54.
3. Grasp the cot frame at the foot end to pull the cot out of the vehicle patient compartment.



Figure 54

For models 6500/6506 and 6510/6516 with the Power-LOAD option:

- Operator 1 - Grasp the cot frame at the foot end. While supporting the weight of the cot, guide and pull the cot out of the vehicle patient compartment until the safety bar engages the safety hook. Press and hold the extend (+) button on the cot control switch to extend the cot undercarriage to the set load height with the cot wheels on the ground.
- Operator 2 - Verify that the safety bar engages the safety hook and stabilize the cot during the unloading operation by securely grasping the outer rail. Push the safety bar release lever forward to disengage the safety bar from the safety hook in the vehicle patient compartment.

For models 6085/6086 with the Power-LOAD option:

- Operator 1 (Foot End) – Grasp the cot frame at the foot end. While supporting the weight of the cot, guide and pull the cot out of the vehicle patient compartment until the safety bar engages the safety hook.
- Operator 2 (Side) – Grasp the base frame where indicated, lift slightly, and lower the base frame to its fully extended position while Operator 1 squeezes and holds the cot manual release.
- Operator 1 (Foot End) – Let go of the cot manual release and ensure that the undercarriage locks into place. Set the cot onto the ground.
- Operator 2 (Side) – Disengage the safety bar from the safety hook by pushing the safety bar release lever forward.

WARNING

When unloading the cot, ensure that the cot wheels are on the ground before lowering the arms.

Note: In the unlikely case that the cot foot end fails and the cot cannot be removed from the vehicle, remove the patient by alternate means (for example, by using a backboard or field cot).

Operation Guide

REMOVING A COT FROM A VEHICLE FOR REPAIR

In the unlikely case that the cot foot end fails and the cot cannot be removed from the vehicle, remove the patient by alternate means (for example, by using a backboard or field cot).

WARNING

Removing a cot from a vehicle for repair requires a minimum of two (2) trained operators.

1. Operator 1 - Press the manual trolley release button at the head end of the Power-LOAD system.
 2. Operator 2 - Squeeze the foot end closest slide on transfer, and with the help of Operator 1, push the cot and transfer firmly out, but not all the way out, of the vehicle compartment.
 3. Operator 1 - With a screwdriver or similar tool, push on the hook assembly underneath the transfer while Operator 2 pushes the transfer forward inside of the vehicle compartment to disengage the cot from the lock.
 4. After the cot is unlocked, pull the cot all the way out.
-

WARNING

Power-LOAD is only an assisting device. Operators are responsible for evaluating each situation to determine how to distribute and lift the weight being transported. Always use both hands when handling the cot.

5. Ensure that the cot base is extended, then lift one of the red manual cot release handles at the head end of Power-LOAD to unlock the cot.
-

WARNING

When unloading the cot, ensure that the cot wheels are on the ground before lowering the arms.

Note: In the unlikely case that the cot foot end fails and the cot cannot be removed from the vehicle, remove the patient by alternate means (for example, by using a backboard or field cot).

Operation Guide

LOADING A COT INTO A VEHICLE MANUALLY (POWER-PRO POWER LOSS)

WARNING

- Loading and/or unloading an occupied cot into a vehicle requires a minimum of two (2) trained operators.
- Make sure that all occupants enter the vehicle patient compartment after the Power-LOAD compatible cot has been loaded into the vehicle patient compartment.

1. Lift the vehicle bumper to the raised position (if equipped).
2. Raise the lifting arms to guide and pull the trolley out of the vehicle patient compartment as shown in Figure 55.
3. Raise the cot to the load position.
4. Push the cot into Power-LOAD until the cot load wheel pins lock into position as shown in Figure 56. Ensure that the cot is aligned with the lifting arms when loading.

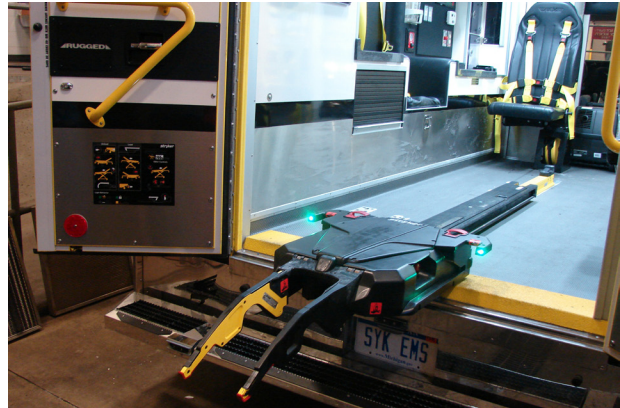


Figure 55

CAUTION

To avoid the risk of equipment damage, do not slam the cot into the trolley when loading.

5. Check the head end lock LED indicators to ensure that the cot is locked into Power-LOAD.
 - If the LEDs are solid green, the cot head end is locked into Power-LOAD.
 - If the LEDs are flashing red, the cot head end is not locked into Power-LOAD.
6. Press the up (↑) button on the Power-LOAD control panel as shown in Figure 57 to raise the lifting arms to the highest position.

Note: The cot legs do not retract.

7. Operator 1 (Foot End) – Grasp the cot frame at the foot end. Squeeze and hold the cot manual release.
8. Operator 2 (Side) – Grasp the base frame. After the foot end operator squeezes the cot manual release, retract the undercarriage with one hand and stabilize the cot with your other hand.

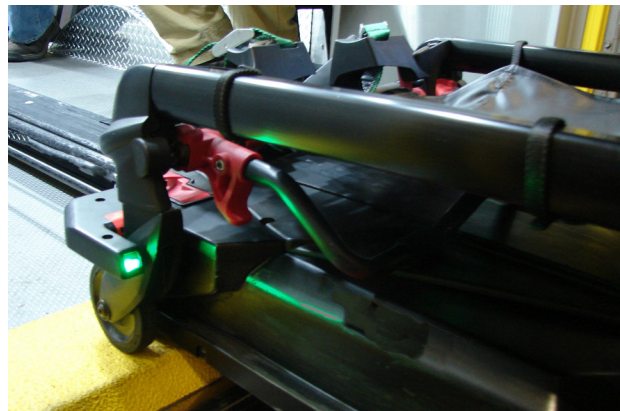


Figure 56

CAUTION

To avoid the risk of equipment damage, do not push the cot into the vehicle patient compartment until the cot base is fully retracted.



Figure 57

Operation Guide

LOADING A COT INTO A VEHICLE MANUALLY (POWER-PRO POWER LOSS) (CONTINUED)

9. Both Operators - Push the cot into the vehicle patient compartment, until the lifting arms lower and the cot locks into Power-LOAD.
10. Operator 1 - Continue to squeeze and hold the cot manual release.

 **CAUTION**

Do not let go of the manual release until the cot locks into position at the head end. If you let go too early, then the cot base may prevent the cot from properly locking into Power-LOAD.

11. Ensure that the cot is locked into Power-LOAD by firmly pulling on the foot end of the cot.
12. Following the call, remove the cot from service to diagnose and repair the Power-PRO cot.

Note: Power-LOAD automatically charges the Power-PRO SMRT Pak battery when the cot is locked into Power-LOAD in the transport position (no cable or connectors required). The cot battery LED indicator momentarily flashes green to signify that it is charging.

Cleaning

WARNING

Always press the main power button to turn the unit off before service or cleaning.

CLEANING PROCEDURE

- Follow the cleaning solution manufacturer's dilution recommendations exactly.
 - Wipe the unit with a clean cloth and recommended cleaner as listed in "Cleaning" on [page 67](#).
 - Using a soft cloth and brush, clean the transfer roller channels to prevent debris accumulation according to the Preventative Maintenance checklist on [page 68](#).
 - Towel dry the transfer roller channels and arm hinges.
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WARNING

Use any appropriate personal safety equipment, such as goggles or respirators, to avoid the risk of inhaling contagion.

CLEANING LIMITATIONS

CAUTION

- DO NOT STEAM CLEAN OR ULTRASONICALLY CLEAN THE UNIT.
 - Maximum water temperature should not exceed 180°F/82°C.
 - Allow unit to air dry prior to use.
 - Failure to comply with these instructions may invalidate any/all warranties.
-

Cleaning

In general, when used in those concentrations recommended by the manufacturer, either phenolic type or quaternary (**excluding Virex® TB**) type disinfectants can be used. Iodophor type disinfectants are not recommended for use because staining may result.

Suggested cleaners for the Power-LOAD surfaces:

- Quaternary Cleaners (active ingredient - ammonium chloride)
- Phenolic Cleaners (active ingredient - o-phenylphenol)
- Chlorinated Bleach Solution (5.25% - less than 1 part bleach to 100 parts water)

Avoid over saturation and ensure that the product does not stay wet longer than the chemical manufacturer's guidelines for proper disinfecting.

WARNING

SOME CLEANING PRODUCTS ARE CORROSIVE IN NATURE AND MAY CAUSE DAMAGE TO THE PRODUCT IF USED IMPROPERLY. If the products described above are used to clean Stryker patient care equipment, measures must be taken to insure the units are wiped with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the units will leave a corrosive residue on the surface of the units, possibly causing premature corrosion of critical components.

Note: Failure to follow the above directions when using these types of cleaners may void this product's warranty.

REMOVAL OF IODINE COMPOUNDS

Use a solution of 1/2 Tablespoon Sodium Thiosulfate in a pint of warm water to clean the stained area. Clean as soon as possible after staining occurs. If stains are not immediately removed, allow solution to soak or stand on the surface. Rinse surfaces which have been exposed to the solution in clear water before returning unit to service.

Preventative Maintenance

Maintenance Intervals

The following schedule is intended as a general guide to maintenance. Call volume, weather, terrain, geographical location, and individual usage will alter the required maintenance schedule. If you are unsure as to how to perform these checks or are in doubt as to what intervals to follow in maintaining your unit, contact your Stryker Service Technician.

Note: The Power-LOAD maintenance schedule is based on 10 calls per day. Adjust the following schedule to your actual service usage.

Routine	Every			
	1 Month	3 Months	6 Months	12 Months
All fasteners are secure (reference all assembly drawings)		X		
Check and replace any worn parts, including arm covers, trolley covers, or cot guides, if necessary				X
Clean debris from the cot foot end location on the transfer	X			
Clean debris from the top of the transfer assembly and anchor assembly		X		
Clean transfer roller channels to prevent debris accumulation		X		
Check full functionality according to the "Power-LOAD Installation Checklist" on page 38				X
Check for hydraulic leaks				X
Replace the transfer lock bearing (p/n 0081-439-000) once per year. Note: During bearing replacement, ensure that the surrounding area is clean (anchor) and apply molybdenum disulfide grease to the transfer lock pin (6390-001-074).				X
Check the Power-LOAD load and unload functionality. If the unit is difficult to roll or wear is noticeable in the transfer roller channel beyond the inner rod, replace the V-guide rollers (p/n 6390-001-025) on the trolley and switch the patient right, outside, bottom transfer rod with the patient right, outside top transfer rod. Check all remaining rollers for damage or excessive wear. Replace, if necessary. Note: The rollers and transfer rod may only need to be replaced every four years.				X

WARNING

To avoid the risk of injury, replace Power-LOAD if it has been involved in an accident. A fastener that has been involved in an accident may be damaged, possibly causing failure to operate properly.

Warranty

Stryker EMS, a division of the Stryker Corporation, offers two distinct warranty options in the United States:

One (1) year parts and labor. Under this option, Stryker EMS warrants to the original purchaser that its products should be free from manufacturing non-conformances that affect product performance and customer satisfaction for a period of one (1) year after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product that is, in the sole discretion of Stryker, found to be defective.

Two (2) year parts. Under this option, Stryker EMS warrants to the original purchaser that non-expendable components of its products should be free from manufacturing non-conformances that affect product performance and customer satisfaction for a period of two (2) years after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. Expendable components, i.e. mattresses, restraints, I.V. poles, storage nets, storage pouches, oxygen straps, batteries, and other soft goods, have a one (1) year limited warranty with this option.

Under either warranty option, Power-LOAD is designed for a 7 year expected service life under normal use, conditions, and with appropriate periodic maintenance as described in the maintenance manual for the device. Stryker warrants to the original purchaser that the welds on Power-LOAD will be free from structural defects for the expected 7 year life of Power-LOAD as long as the original purchaser owns the product.

If Stryker requests products or parts for which an original purchaser makes a warranty claim, the purchaser shall return the product or part prepaid freight to Stryker's factory.

Any improper use or alteration or repair by unauthorized service providers in such a manner as in Stryker's judgement affects the product materially and adversely, shall void this warranty. Any repair of Stryker products using parts not provided or authorized by Stryker shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

This statement constitutes Stryker EMS's entire warranty with respect to the aforesaid equipment. STRYKER MAKES NO OTHER WARRANTY OR REPRESENTATION EITHER EXPRESSED OR IMPLIED, EXCEPT AS SET FORTH HEREIN. THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL STRYKER BE LIABLE HEREUNDER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN ANY MANNER RELATED TO SALES OR USE OF ANY SUCH EQUIPMENT.

Warranty

STRYKER EMS RETURN POLICY

Cots, Stair Chairs, Evacuation Chairs, Power-LOAD and Aftermarket Accessories may be returned up to 180 days of receipt if they meet the following guidelines:

Prior to 30 Days

- 30 day money back guarantee in effect
- Stryker EMS is responsible for all charges
- Returns will not be approved on modified items

Prior to 90 Days

- Product must be **unused, undamaged** and in the original packaging
- Customer is responsible for a 10% restocking fee

Prior to 180 Days

- Product must be **unused, undamaged** and in the original packaging
- Customer is responsible for a 25% restocking fee

RETURN AUTHORIZATION

Merchandise cannot be returned without approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned merchandise. Stryker reserves the right to charge shipping and restocking fees on returned items.

SPECIAL, MODIFIED, OR DISCONTINUED ITEMS NOT SUBJECT TO RETURN.

DAMAGED MERCHANDISE

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. **DO NOT ACCEPT DAMAGED SHIPMENTS UNLESS SUCH DAMAGE IS NOTED ON THE DELIVERY RECEIPT AT THE TIME OF RECEIPT.** Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claim will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the merchandise, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full.

Claims for any short shipment must be made within thirty (30) days of invoice.

INTERNATIONAL WARRANTY CLAUSE

This warranty reflects U.S. domestic policy. Warranty outside the U.S. may vary by country. Please contact your local Stryker Medical representative for additional information.

PATENT INFORMATION

Power-LOAD is covered by one or more of the following patents:

United States 7,478,855 7,520,551 7,540,547

Other Patents Pending

EMC Information

POWER-LOAD

Guidance and Manufacturer's Declaration - Emissions		
Model 6390 Power-LOAD System is intended for use in the electromagnetic environment specified below. The customer or user of the Model 6390 Power-LOAD System should ensure that it is used in such an environment.		
Emissions Test	Compliance	Electromagnetic Environment
RF Emissions CISPR 11	Group 1	Model 6390 Power-LOAD uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Group 2	Model 6390 Power-LOAD must emit Electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.
RF Emissions CISPR 11	Class A	
Harmonics IEC 61000-3-2	Class A	
Flicker IEC 61000-3-3	Complies	
		Model 6390 Power-LOAD is suitable for use in all establishments, other than domestic, and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

EMC Information

POWER-LOAD (CONTINUED)

Guidance and Manufacturer's Declaration - Immunity			
Model 6390 Power-LOAD System is intended for use in the electromagnetic environment specified below. The customer or user of the Model 6390 Power-LOAD System should ensure that it is used in such an environment.			
Immunity Test	EN/IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidance
ESD EN/IEC 61000-4-2	+6kV Contact +8kV Air	+6kV Contact +8kV Air	Floors should be wood, concrete or ceramic tile. If floors are synthetic, the r/h should be at least 30%.
EFT EN/IEC 61000-4-4	+2kV Mains +1kV I/Os	+2kV Mains +1kV I/Os	Mains power quality should be that of a typical commercial or hospital environment.
Surge EN/IEC 61000-4-5	+1kV Differential +2kV Common	+1kV Differential +2kV Common	Mains power quality should be that of a typical commercial or hospital environment.
Voltage Dips/Dropout EN/IEC 61000-4-11	>95% Dip for 0.5 Cycle 60% Dip for 5 Cycles 30% Dip for 25 Cycles >95% Dip for 5 Seconds	>95% Dip for 0.5 Cycle 60% Dip for 5 Cycles 30% Dip for 25 Cycles >95% Dip for 5 Seconds	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Model 6390 Power-LOAD System requires continued operation during power mains interruptions, it is recommended that the Model 6390 Power-LOAD System be powered from an uninterruptible power supply or battery.
Power Frequency 50/60Hz Magnetic Field EN/IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical commercial or hospital environment.

EMC Information

POWER-LOAD (CONTINUED)

Guidance and Manufacturer's Declaration - Emissions			
Model 6390 Power-LOAD is suited for use in the electromagnetic environment specified below. The customer or the user of Model 6390 Power-LOAD should assure that it is used in such an environment.			
Immunity Test	EN/IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
<p style="text-align: center;">Conducted RF EN/IEC 61000-4-6</p> <p style="text-align: center;">Radiated RF EN/IEC 61000-4-3</p>	<p style="text-align: center;">3 Vrms 150 kHz to 80 MHz</p> <p style="text-align: center;">3 V/m 80 MHz to 2.5 GHz</p>	<p style="text-align: center;">(3)Vrms</p> <p style="text-align: center;">(3)V/m</p>	<p>Portable and mobile communications equipment should be separated from the Model 6390 Power-LOAD by no less than the distances calculated/listed below:</p> <p>$D=(3.5/V1)(\sqrt{P})$</p> <p>$D=(3.5/E1)(\sqrt{P})$ 80 to 800 MHz</p> <p>$D=(7/E1)(\sqrt{P})$ 800 MHz to 2.5 GHz</p> <p>where P is the max power in watts and D is the recommended separation distance in meters.</p> <p>Field strengths from fixed transmitters, as determined by an electromagnetic site survey, should be less than the compliance levels (V1 and E1).</p> <p>Interference may occur in the vicinity of equipment containing a transmitter.</p>

EMC Information

POWER-LOAD (CONTINUED)

Recommended Separations Distances for Model 6390 Power-LOAD System			
<p>Model 6390 Power-LOAD System is intended for use in the electromagnetic environment in which radiated disturbances are controlled. The customer or user of Model 6390 Power-LOAD System can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF Communications Equipment and Model 6390 Power-LOAD System as recommended below, according to the maximum output power of the communications equipment.</p>			
Max Output Power (Watts)	Separation (m) 150kHz to 80MHz $D=(3.5/V1)(\sqrt{P})$	Separation (m) 80 to 800MHz $D=(3.5/E1)(\sqrt{P})$	Separation (m) 800MHz to 2.5GHz $D=(7/E1)(\sqrt{P})$
0.01	0.1166	0.1166	0.2333
0.1	0.3689	0.3689	0.7378
1	1.1666	1.1666	2.3333
10	3.6893	3.6893	7.3786
100	11.6666	11.6666	23.3333



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EC	REP
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