



M-Series Stretcher

Model 1025 (SM304)

stryker[®]

Operations Manual



For Parts or Technical Assistance:
USA: 1-800-327-0770 (option 2)



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Introduction


INTENDED USE

This manual is designed to assist you with the maintenance of Stryker Model 1025 M-Series Stretcher with ZOOM®. Carefully read this manual thoroughly before using the equipment or beginning maintenance on it. To ensure safe operation of this equipment, it is recommended that methods and procedures be established for educating and training staff on the safe operation of this stretcher.

PRODUCT DESCRIPTION

The Stryker Model 1025 M-Series Stretcher with ZOOM® product is a general purpose patient transport and treatment stretcher.

SPECIFICATIONS

| | | | |
|---|--|---|---------------------------------|
|  | Safe Working Load | | |
| | Note: Safe Working Load indicates the sum of the patient, mattress, and accessory weight. | | 700 pounds 318 kg |
| Weight of Product | 26" Stretcher | 415 lbs (standard configuration) 465 lbs (all options/accessories) | 188 kg 211 kg |
| | 30" Stretcher | 435 lbs (standard configuration) 485 lbs (all options/accessories) | 197 kg 220 kg |
| Overall Stretcher Length | | 85" (± .5") | 215.9 cm (± 1.27 cm) |
| Overall Stretcher Width (Siderails Up) | | 34.5" & 37" (± .5") | 87.63 cm & 93.98 cm (± 1.27 cm) |
| Overall Stretcher Width (Siderails Down) | | 26.5" & 30.75" (± .5") | 67.31 cm & 78.11 cm (± 1.27 cm) |
| Minimum / Maximum Stretcher Height | | 23" / 34" (± .5") | 58 cm / 86 cm (± 1.27 cm) |
| Fowler Angle | | 0° to 90° (± 3°) | |
| Knee Gatch Angle | | 0° to 40° (± 1°) | |
| Trendelenburg / Reverse Trendelenburg | | +15° to -15° | |
| Electrical | | 115 VAC, 60 Hz, 3.0 Amp | |
| Battery Voltage | | 24 VDC, 31 Ah | |
| Water Protection | | IPX5 | |
| Mode of Operation | | Continuous | |
| Electromagnetic Compatibility: Product conforms to EN 60601-1-2:1993 - Class A | | | |
| Ambient Temperature in Charge Mode | | Not to exceed 82.4°F | 28°C |

Introduction

SPECIFICATIONS (CONTINUED)

| Environmental Conditions | Operation | Storage and Transportation |
|--------------------------|-----------|----------------------------|
| Temperature | | |
| Relative Humidity | | |
| Atmospheric Pressure | | |

**** The 104°F (40°C) maximum operating temperature only applies when the stretcher is not charging. 82°F (28°C) is the maximum temperature while the stretcher is charging.**

Note

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.


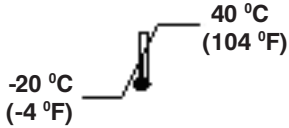


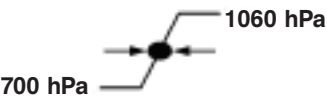
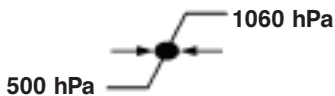
Stryker reserves the right to change specifications without notice.

Specifications listed are approximate and may vary slightly from unit to unit or by power supply fluctuations.

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SPECIFICATIONS (OPTIONAL SCALE SYSTEM)

| Optional Scale System Weight Operating Range | 0 lbs to maximum capacity of the stretcher | |
|--|---|---|
| Optional Scale System Accuracy | Between 10° Trend & 10° reverse Trend* ±2 lbs. (0.9 kg) of weights below 100 lbs (45.04 kg). ±2% of weights above 100 lbs (45.04 kg). | |
| Environmental Conditions | Operation | Storage and Transportation |
| Temperature |  |  |
| Relative Humidity |  |  |
| Atmospheric Pressure |  |  |
| * Scale does not meet accuracy claims at Trend angles outside the specified range. | | |
| Internally Powered | | |
| Mode of Operation: Continuous | | |
| IPX5 | | |
| Electromagnetic Compatibility: Product conforms to EN 60601-1-2:1993 - Class B | | |
| Type: 4 x AA Battery (4 x 1.5VDC) | | |
| Voltage: 6.0VDC | | |

Introduction

WARNING / CAUTION / NOTE DEFINITION

The words WARNING, CAUTION, and NOTE carry special meanings and should be carefully reviewed.

WARNING

Alerts the reader about a situation, which if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

CAUTION

Alerts the reader of a potentially hazardous situation, which if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

Note

This provides special information to make maintenance easier or important instructions clearer.

Symbols



Warning, consult accompanying documentation



Alternating Current



Type B Equipment: equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.

Class 1 Equipment: equipment in which protection against electric shock does not rely on **basic insulation** only, but which includes an additional safety precaution in that means are provided for the connection of the **equipment** to the protective earth conductor in the fixed wiring of the installation in such a way that **accessible metal parts** cannot become live in the event of a failure of the **basic insulation**.

Internally powered.



Dangerous Voltage Symbol



Protective Earth Terminal



Potential Equalization Symbol



Medical Equipment Classified by Underwriters Laboratories Inc. with Respect to Electric Shock, Fire, Mechanical and Other Specified Hazards Only in Accordance with UL 2601-1, Second Edition and CAN / CSA C22.2 No. 601.1-M90.



Safe Working Load Symbol



Location not suitable for oxygen bottle storage/placement



In accordance with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment, this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Refer to your local distributor for return and/or collection systems available in your country.

OPTIONAL SCALE SYSTEM



Medical Equipment Classified by Underwriters Laboratories Inc. with Respect to Electric Shock, Fire, Mechanical and Other Specified Hazards Only in Accordance with UL 60601-1 First Edition (2003) and CAN/CSA C22.2 No. 601.1.

Summary of Safety Precautions

Before operating this stretcher, it is important to read and understand all information in this manual. Carefully read and strictly follow the warnings and cautions listed on these pages.

Service only by qualified personnel. See the maintenance manual for additional information.

WARNING

- Patients should be discouraged from sitting directly on the ends of the stretcher. Excessive weight could cause the litter surface to tip up, possibly causing patient injury.
- Always apply the caster brakes when a patient is getting on or off the stretcher. Push on the stretcher to ensure the brakes are securely locked. Always engage the brakes unless the stretcher is being moved. Injury could result if the stretcher moves while a patient is getting on or off the stretcher.
- Use caution while maneuvering the unit with the drive wheel activated. Always ensure there are no obstacles near the unit while the drive wheel is activated. Injury to the patient, user or bystanders or damage to the unit or surrounding equipment could occur if the unit collides with an obstacle.
- Do not attempt to push the unit manually with the drive wheel engaged and the **“On/Drive - Off/Manual”** switch in the **On** position. The unit will be difficult to push and injury could result.
- When lowering the siderail to the collapsed position, keep extremities of patients and staff away from the siderail spindles or injury could occur.
- Keep hands/fingers clear of the area around the fowler release handles and the fowler frame when lowering. Injury could result if care is not taken when lowering the fowler.
- If the stretcher is equipped with the optional foot end I.V. pole, the I.V. pole must be in the raised position when the foot extension/defibrillator tray is installed. If the I.V. pole is not raised, the foot extension will not function properly and injury could occur.
- If the stretcher is equipped with the optional foot end push handles, use caution while the foot extension/defibrillator tray is installed to avoid pinching your fingers.
- Ensure the brakes are completely released prior to attempting to move the unit. Attempting to move the unit with the brakes actuated could result in injury to the user and/or patient.
- If unanticipated motion occurs, unplug the power cord from the power source and rotate the **“On/Drive - Off/ Manual”** switch to the **Off** position.
- Leave the stretcher litter in the lowest position when the patient is unattended. Leaving the litter in a raised position could increase the chance of patient falls and injury.
- After raising the siderails, pull firmly on the siderail to ensure it is securely locked into the up position. Siderails are not intended to serve as a patient restraint device to keep patients from exiting the unit. Siderails are designed to keep a patient from inadvertently rolling off the unit. It is the responsibility of the attending medical personnel to determine the degree of restraint necessary to ensure a patient will remain in place. Failure to utilize the siderails properly could result in patient injury.
- Possible fire hazard when oxygen administering equipment of other than the nasal mask or 1/2 bed length tent type is used. Oxygen tent should not extend below mattress support level.
- Possible fire and/or explosion hazard when used with oxygen tents, hyperbaric chambers, anesthesia, or other combustible gases.

Summary of Safety Precautions

CAUTION

- Do not modify this stretcher. Modifying the unit can cause unpredictable operation resulting in injury to the patient or operator. Modifying the unit will also void its warranty.
- This stretcher is not intended for pediatric use or for patients under 50 pounds. This stretcher is intended for use by trained hospital personnel only.
- The Model 1025 Stretcher is equipped with a hospital grade plug for protection against electric shock hazard. It must be plugged directly into a properly grounded three-prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used. Be sure to move any equipment that may be in the way before raising or lowering the litter height.
- Be sure to remove any equipment that may be in the way before lowering the stretcher.
- Remove the batteries if the equipment is placed in storage or will remain idle for an extended period of time. Each battery weighs 25 pounds. To avoid personal injury, use caution when removing the two batteries.
- Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.** Properly dispose of batteries when required.
- Do not engage the pedal when the drive wheel is resting on a threshold or other raised area. The force required to engage the drive wheel will be higher than normal, possibly causing damage.
- To avoid injury or damage to the equipment. Do not allow the siderail to lower on its own.
- The weight capacity of the knee gatch is 200 pounds. Do not sit or stand on the gatch. Injury or damage to the equipment could occur.
- To avoid damage, the weight of the I.V. bags should not exceed 40 pounds.
- To avoid damage, do not put items weighing more than 30 pounds on the serving tray.
- Always unplug the power cord and rotate the “**On/Drive - Off/Manual**” switch to the **Off** position before service or cleaning.
- If large fluid spills occur in the area of the Circuit boards or motors, immediately unplug the power cord from the power source and rotate the “**On/Drive - Off/Manual**” switch to the **Off** position. Remove the patient from the unit and clean up the fluid. Have maintenance completely check the unit. Fluids can short out controls and may cause the unit to operate erratically or make some functions completely inoperable. Component failure caused by fluids could even cause the unit to operate unpredictably and could cause injury to the patient. **Do not** put the unit back into service until it is completely dry and has been thoroughly tested for safe operation.
- The cutout for the oxygen bottle holder may not be used for storage of oxygen bottles or patient belongings.
- The hood may not be used for stepping.

Note

Clean hood storage area regularly.

The bottom of the brake rings should be cleaned regularly to prevent wax and/or floor remnant buildup.

Setup Procedures

It is important that the Model 1025 Stretcher is working properly before it is put into service. The following list will help ensure that each part of the unit is checked.

- Plug the power cord into a properly grounded, hospital grade wall receptacle. The 12 volt batteries that provide power to the drive wheel and backup power to the unit functions will charge whenever the power cord is plugged into the power source. The batteries require approximately 6 hours of charging time before the stretcher is put into service
- Depress the pedal at either end of the stretcher fully to set the four wheel brakes and verify all four casters are locked.
- Ensure the siderails raise and lower smoothly and lock securely in the full up position.
- Run through the operation of the drive wheel (see “Transporting the Stretcher Using the Drive Wheel” on [page 15](#) and “Operating the Glideaway Siderails” on [page 17](#) to ensure it is operating properly

 **CAUTION**

The Model 1025 Stretcher is equipped with a hospital grade plug for protection against electric shock hazard. It must be plugged directly into a properly grounded three-prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

Stretcher Operation

OPERATING THE BASE CONTROLS

To operate the base controls, see Figure 1 to locate which pedals are used for what operation. Pedal (A) raises the litter. Pedal (B) lowers the stretcher ends. Pedal (C) operates the brake and steer function for the foot end and pedal (D) operate the brake and steer functions for the head end.

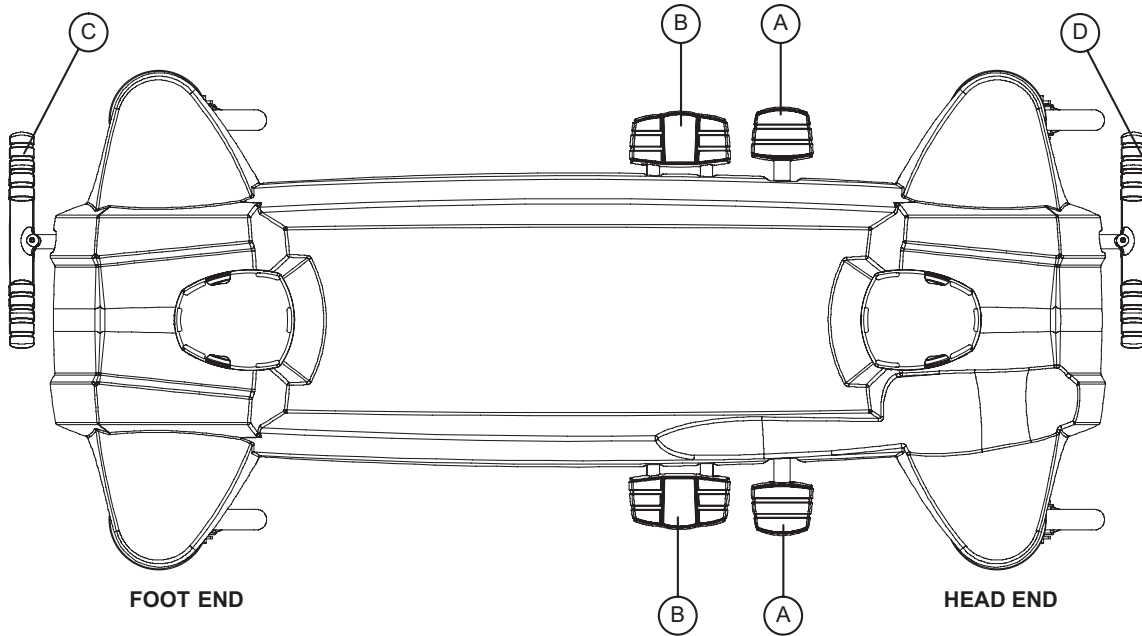
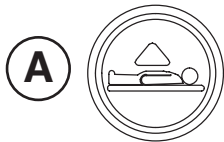
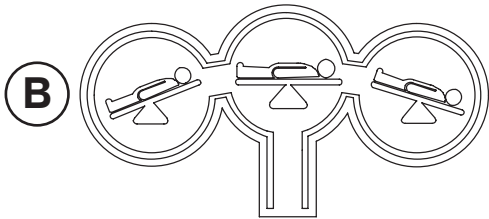


Figure 1 - Stretcher Base Controls



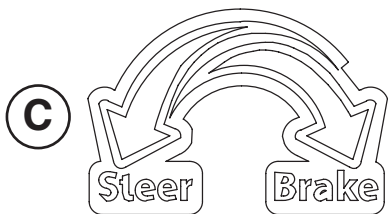
Pump pedal (A) to raise the litter.



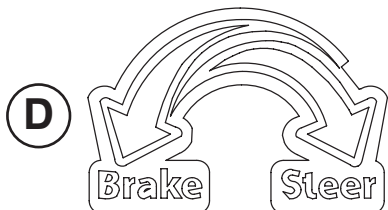
Depress in the center of pedal (B) to lower both ends of the stretcher together.

Depress the side of pedal (B) closest to the foot end of the stretcher to lower the foot end.

Depress the side of pedal (B) closest to the head end of the stretcher to lower the head end.



Pedal (C) - Brake and Steer functions (foot end).



Pedal (D) - Brake and Steer functions (head end).

Stretcher Operation

RAISING AND LOWERING THE LITTER HEIGHT

CAUTION

Move any equipment that may be in the way before raising or lowering the litter height.

To raise the litter height, pump pedal (A) repeatedly until the desired height is achieved (see Figure 1 on [page 12](#)).

To lower both ends of the litter together, depress the center of pedal (B) (see Figure 1 on [page 12](#)).

To lower only the head end of the litter, depress the side of pedal (B) closest to the head end (see Figure 1 on [page 12](#)).

To lower only the foot end of the litter, depress the side of pedal (B) closest to the foot end (see Figure 1 on [page 12](#)).

Note

The base may be equipped with optional variable descent controls. With variable descent controls, the farther you press down on the pedal, the faster the litter will lower.

WARNING

Patients should be discouraged from sitting directly on the ends of the stretcher. Excessive weight could cause the litter surface to tip up, possibly causing patient injury.

Leave the stretcher litter in the lowest position when the patient is left unattended. Leaving the litter in a raised position could increase the chance of patient falls and injury.

ADJUSTING TRENDELENBURG / REVERSE TRENDELENBURG POSITIONS

Note

Litter height must be raised first in order to achieve a Trendelenburg or reverse Trendelenburg position.

CAUTION

Remove any equipment that may be in the way before lowering the stretcher.

For Trendelenburg positioning (head down), depress the side of pedal (B) closest to the head end of the stretcher (see Figure 1 on [page 12](#)).

For Reverse Trendelenburg positioning (foot down), depress the side of pedal (B) closest to the foot end (see Figure 1 on [page 12](#)).

Note

The higher the litter is before pedal (B) is activated, the greater the Trendelenburg or reverse Trendelenburg angle will be. (Maximum Trendelenburg angle is +15°. Maximum reverse Trendelenburg angle is -15°).

Stretcher Operation

APPLYING THE BRAKE SYSTEM

Note

For user convenience, the brake/steer pedal is located on both the head end and foot end of the stretcher.

WARNING

Always apply the caster brakes when a patient is getting on or off the stretcher. Push on the stretcher to ensure the brakes are securely locked. Always engage the brakes unless the stretcher is being moved. Injury could result if the stretcher moves while a patient is getting on or off the stretcher.

To engage the brakes on the head (non-control) end, push fully down on the left side of pedal (D) (see Figure 1 on [page 12](#)).

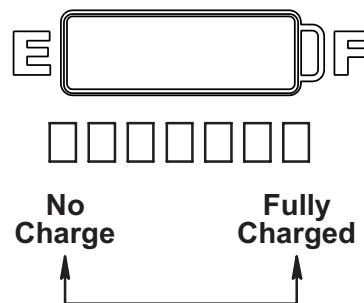
To engage the brakes on the foot (control) end, push fully down on the right side of pedal (C) (see Figure 1 on [page 12](#)).

BATTERY CHARGING AND OPERATION

The unit has two 12 volt batteries to provide power to the drive wheel. The drive wheel will not operate properly if the batteries are not sufficiently charged. The batteries require approximately 6 hours of charging time when they are fully discharged.

The batteries are charging whenever the power cord is plugged into a properly grounded, hospital grade power source. When the unit is stationary, the power cord should be plugged into a power source whenever possible.

There is a battery power gauge at the head end of the litter (see Figure 2). The 7 LED's illuminate individually to indicate the level of battery power available. As the batteries are charging, the LED's will flash in succession until all are flashing (at 1 second intervals) to indicate the batteries are fully charged.



BATTERY POWER GAUGE

Figure 2 - Battery Power Gauge

CAUTION

Remove the batteries if the equipment is placed in storage or will remain idle for an extended period of time. Each battery weighs 25 pounds. To avoid personal injury, use caution when removing the two batteries.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.** Properly dispose of batteries when required.

Stretcher Operation

TRANSPORTING THE STRETCHER USING THE DRIVE WHEEL

WARNING

Serious injury can result if caution is not used when operating the unit. Operate the unit only when all persons are clear of the electrical and mechanical systems.

Ensure that the brakes are completely released before attempting to move the unit. Attempting to move the unit with the brakes actuated could result in injury to the patient or operator.

To transport the stretcher using the drive wheel:

1. Unplug the power cord from the power source and secure the cord on the storage bracket to prevent entanglement while the unit is in motion. **The drive function will not operate if the power cord is plugged into the power source.**
2. Engage the drive wheel by rotating the pedal in the proper direction as shown on the Head End or Foot End Pedal Directional label. To place the drive wheel in the neutral position, rotate the pedal until it is level.

CAUTION

Do not engage the pedal when the drive wheel is resting on a threshold or other raised area. The force required to engage the drive wheel will be higher than normal, possibly causing damage.

3. Put the “On/Drive - Off/Manual” switch in the **On** position. There are two LED’s on the drive handle that indicate whether the unit is ready for driving.
 - If the *green* LED is on, the unit is *ready*.
 - If the *amber* LED is on, the unit is *not ready*. If the unit is not ready for driving, verify that the:
 - Pedal is in the brake or neutral position.
 - Power cord is plugged in the power source.
 - Power switch is in the “**Off/Manual**” position.

WARNING

Use caution while maneuvering the unit with the drive wheel activated. Always ensure there are no obstacles near the unit while the drive wheel is activated. Injury to the patient, user or bystanders or damage to the unit or surrounding equipment could occur if the unit collides with an obstacle.

If unanticipated motion occurs, unplug the power source and rotate the “On/Drive - Off/Manual” switch to the **Off** position.

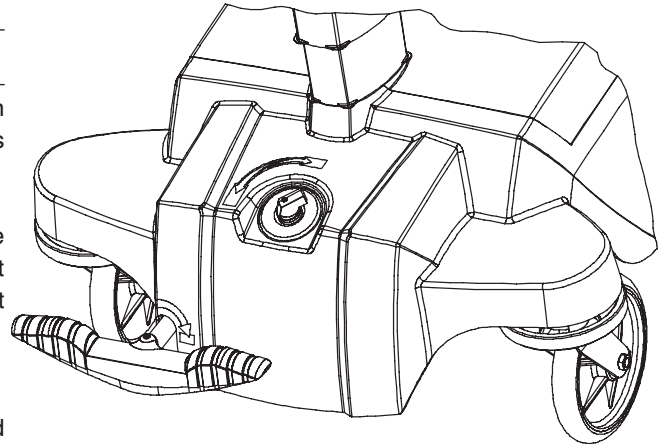
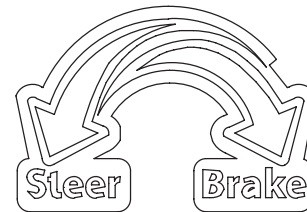
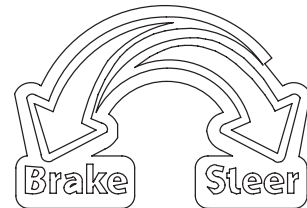


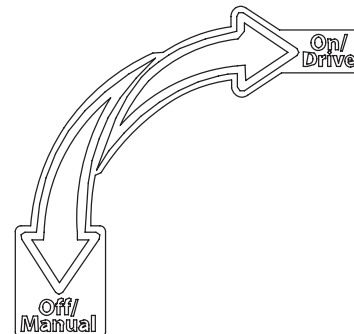
Figure 3 - Pedal and Switch



Head End Pedal Directional Label



Foot End Pedal Directional Label



On/Drive - Off/Manual Switch Label

Stretcher Operation

TRANSPORTING THE STRETCHER USING THE DRIVE WHEEL (CONTINUED)

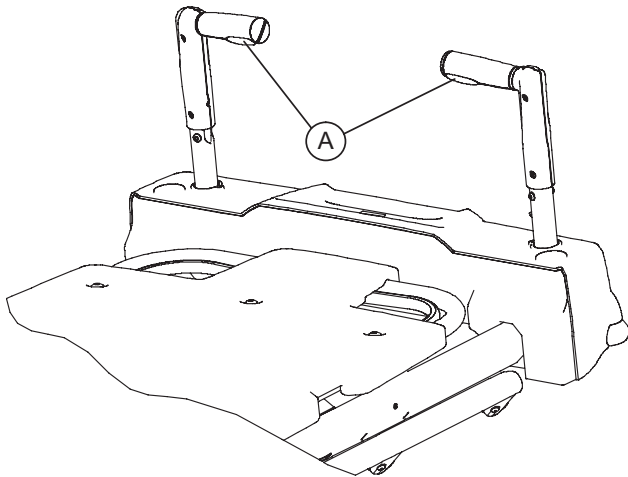


Figure 4 - Drive Handles with Motion Release Switches

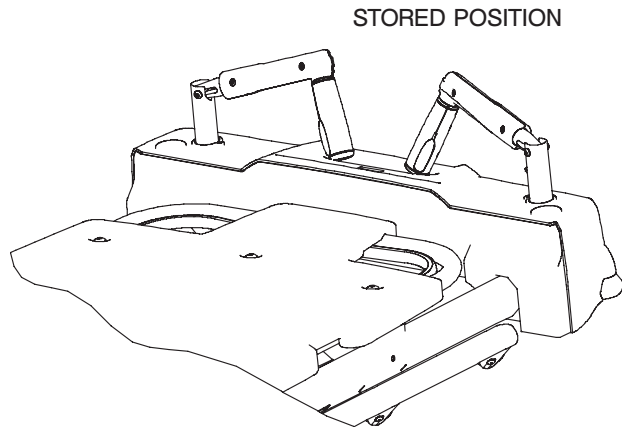


Figure 5 - Drive Handles - Stored Position

4. Grasp the drive handles at the two raised grip areas. Squeeze either of the motion release switches (A) located under the handles to enable the movement of the drive wheel as shown in Figure 4 and in the Drive Wheel Pedal and Drive Handle Reference label. Either or both switches will enable movement but both switches must be released to stop movement.
5. While continuing to squeeze the switch(es), push the handles away from you or pull the handles toward you to initiate motion in that direction. The speed of the drive wheel will increase proportionally to the amount of force applied to the drive handles. When the desired speed is reached, the stretcher will maintain speed and direction with no extra push force. To accelerate, push or pull the handles again until the desired speed is reached. Relax the force to a “neutral” position to maintain speed.
6. To slow down the motion of the stretcher, push or pull the handles in the opposite direction the stretcher is currently moving.
7. To stop motion, remove your hands from the switches and the handles.

Note

The drive wheel does not pivot. The unit cannot be moved directly sideways with the drive wheel engaged. With the drive wheel pedal in the neutral position and the unit’s brakes released, the unit can be moved in any direction including sideways.

To transport the stretcher without using the drive wheel, put the pedal in the neutral position and put the “On/ Drive - Off/Manual” switch in the **Off** position. This allows the stretcher to be maneuvered with the assistance of the Big Wheel® but without power assistance from the ZOOM® drive wheel.



Drive Wheel Pedal and Drive Handle Reference Label

WARNING

Do not attempt to push the unit manually with the drive wheel engaged and the “On/Drive - Off/Manual” switch in the **On** position. The unit will be difficult to push and injury could result.

CAUTION

Always unplug the power cord and rotate the “On/Drive - Off/Manual” switch to the **Off** position before service or cleaning.

Stretcher Operation

OPERATING THE GLIDEAWAY™ SIDERAILS

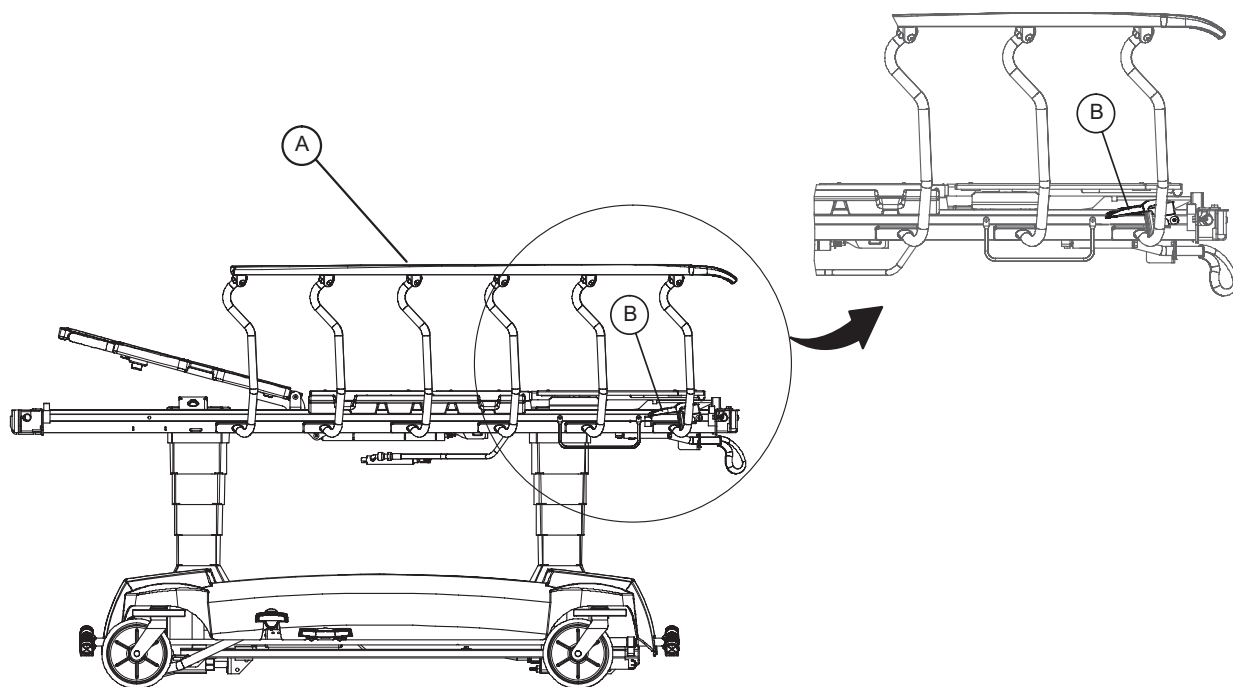


Figure 6 - Siderails

Note

Raising and lowering the siderails safely is a two-handed operation. Use one hand to hold and position the siderail and the other hand to operate the siderail latch.

WARNING

When lowering the siderail to the collapsed position, keep extremities of patients and staff away from the siderail spindles or injury could occur.

To raise the siderails: Pull up on the siderail (A) and raise it to the full up position until the latch (B) engages as shown in Figure 6.

To lower the siderails: Pull up on the latch (B) and guide the siderail to the full down position as shown in Figure 6. The latches (B) are colored yellow for easy identification.

CAUTION

To avoid injury or damage to the equipment. Do not allow the siderail to lower on its own.

Note

There is a dual siderail latch option available with latches on both ends of the stretcher.

WARNING

After raising the siderails, pull firmly on the siderail to ensure it is securely locked into the up position. Siderails are not intended to serve as a patient restraint device to keep patients from exiting the unit. Siderails are designed to keep a patient from inadvertently rolling off the unit. It is the responsibility of the attending medical personnel to determine the degree of restraint necessary to ensure a patient will remain in place. Failure to utilize the siderails properly could result in patient injury.

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Stretcher Operation

OPERATING THE PNEUMATIC FOWLER

Squeeze either or both of the yellow fowler handles (A) for pneumatic assist in lifting the fowler to the desired height as shown in Figure 7. Remove hand(s) from handle when the desired height is achieved.

The optional drop seat fowler uses the weight of the patient for additional assistance with lifting the fowler. It also helps keep the patient from sliding toward the foot end of the stretcher when the fowler is raised.

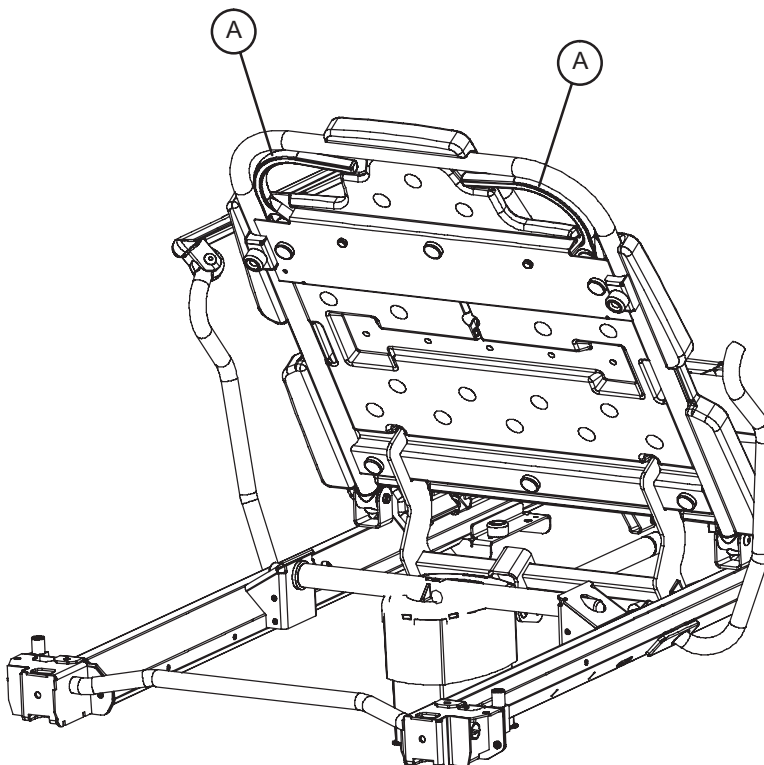


Figure 7 - Pneumatic Fowler

WARNING

Keep hands/fingers clear of the area around the fowler release handles and the fowler frame when lowering. Injury could result if care is not taken when lowering the fowler.

Stretcher Operation

OPERATING THE OPTIONAL KNEE GATCH

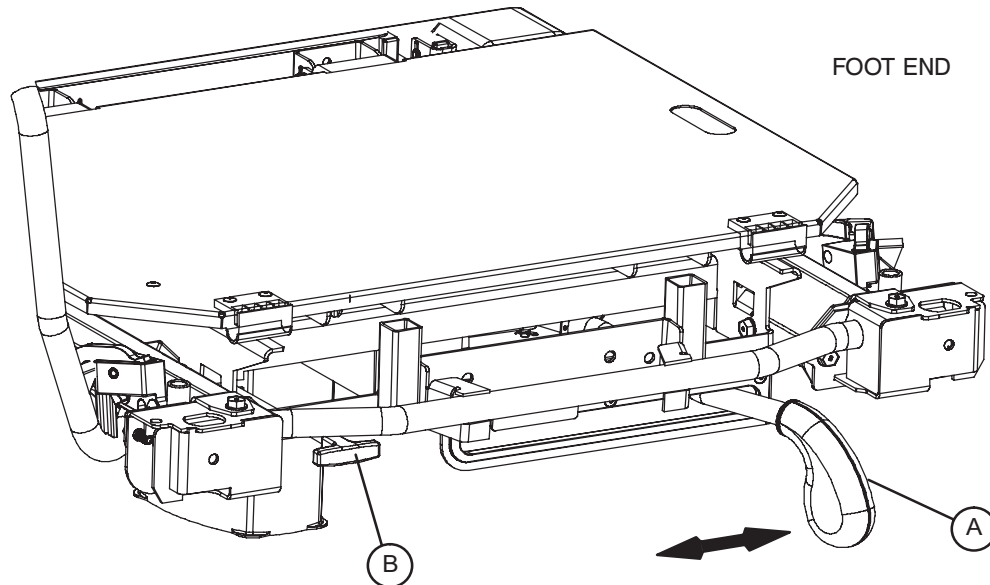


Figure 8 - Knee Gatch - Foot End

To raise the knee gatch, pump handle (A) repeatedly to the left as shown in Figure 8.

To lower the knee gatch, pull out handle (B) as shown in Figure 8.

CAUTION

The weight capacity of the knee gatch is 200 pounds. Do not sit or stand on the gatch. Injury or damage to the equipment could occur.

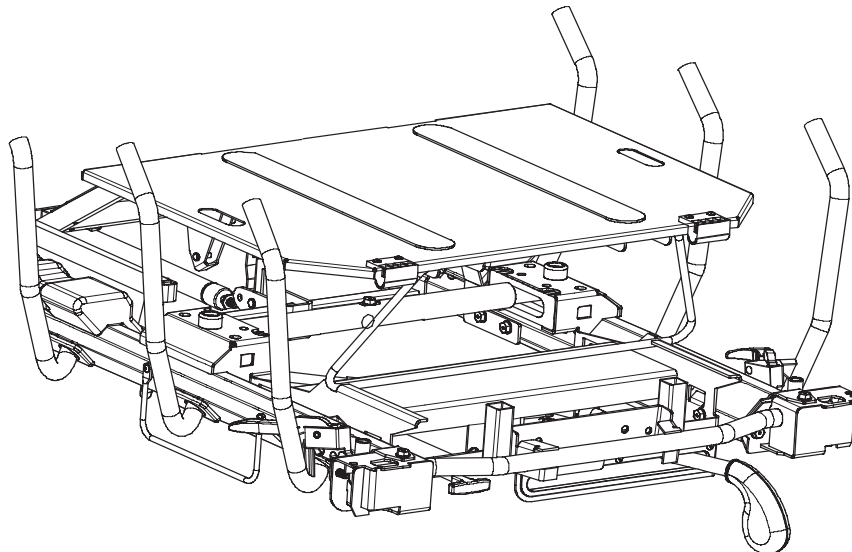


Figure 9 - Knee Gatch

To prop the foot end of the knee gatch up, lift up the end of the knee gatch, allowing the prop rod to swing down and engage in the bracket. To release the prop, lift up on the end of the gatch, swing the prop rod toward the head end of the bed to disengage the bracket and lower the foot end. (See Figure 9)

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Stretcher Operation

OPERATING THE OPTIONAL 2-STAGE PERMANENTLY ATTACHED I.V. POLE

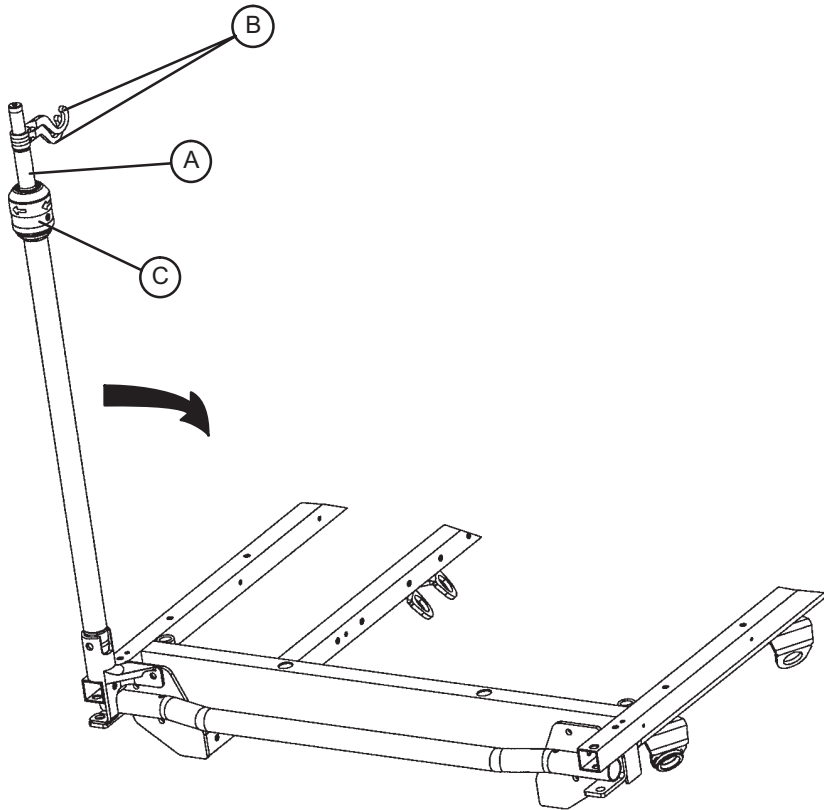


Figure 10 - I.V. Pole

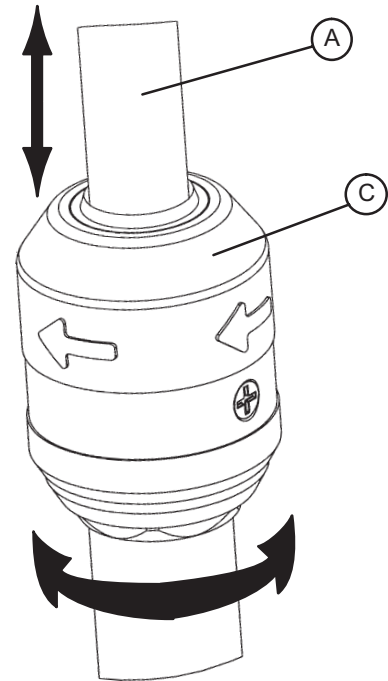


Figure 11 - Detail of I.V. Pole Latch

Note

The 2-stage permanently attached I.V. pole is an option and may have been installed at either the head, foot or both ends of the stretcher. The choice was made at the time the stretcher was purchased.

To use the 2-stage permanently attached I.V. pole:

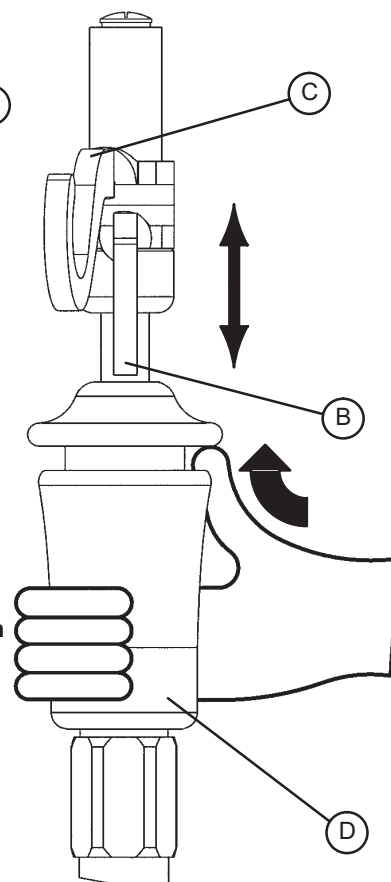
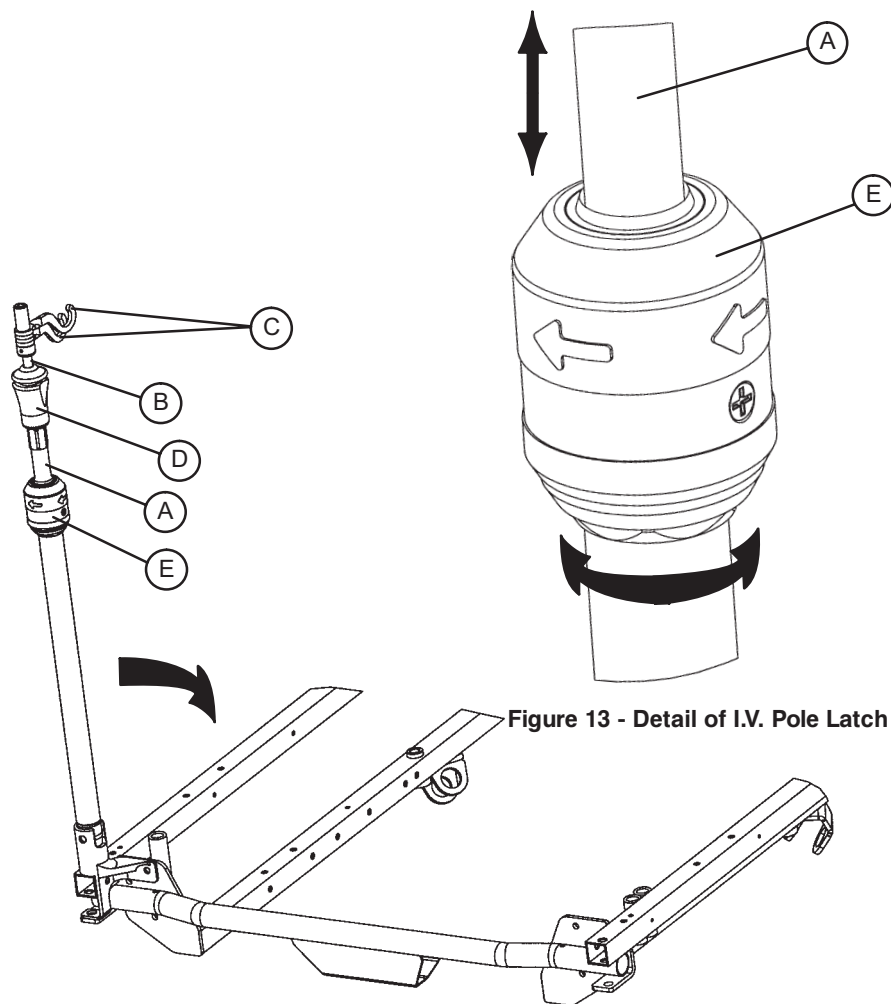
1. Lift and pivot the pole from the storage position and push down until it is locked into the receptacle.
2. To raise the height of the pole, pull up on the telescoping portion (A) until it locks into place at its fully raised position.
3. Rotate the I.V. hangers (B) to desired position and hang the I.V. bags.
4. To lower the I.V. pole, turn the latch (C) until section (A) lowers.

CAUTION

To avoid damage, the weight of the I.V. bags should not exceed 40 pounds.

Stretcher Operation

OPERATING THE OPTIONAL 3-STAGE PERMANENTLY ATTACHED I.V. POLE



Note

The 3-stage permanently attached I.V. pole is an option and may have been installed at either the head, foot or both ends of the stretcher. The choice was made at the time the stretcher was purchased.

To use the 3-stage permanently attached I.V. pole:

1. Lift and pivot the pole from the storage position and push down until it is locked into the receptacle.
2. To raise the height of the pole, pull up on the telescoping portion (A) until it locks into place at its fully raised position.
3. For a higher I.V. pole, pull up on section (B). Release section (B) at any desired height and it will lock into place.
4. Rotate the I.V. hangers (C) to the desired position and hang the I.V. bags.
5. To lower the I.V. pole, push up on the red portion of grip (D) while holding onto section (B) until it lowers. Turn latch (E) until section (A) lowers.

CAUTION

To avoid damage, the weight of the I.V. bags should not exceed 40 pounds.

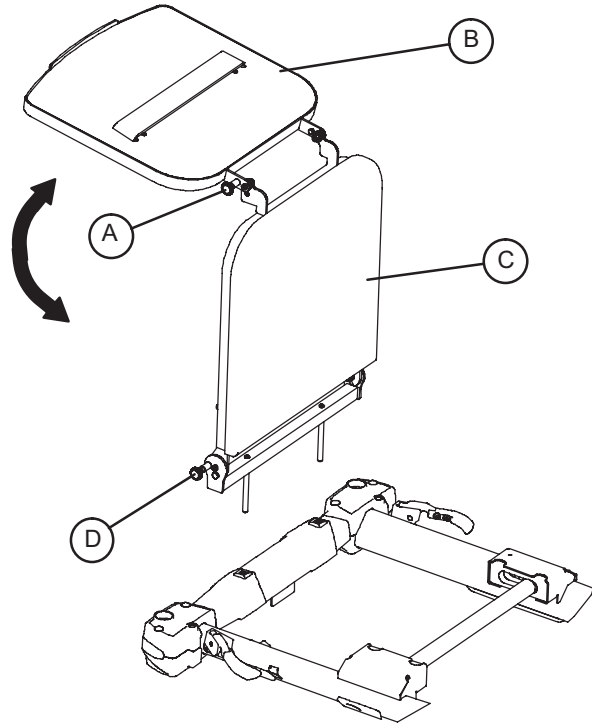
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Stretcher Operation

OPERATING THE OPTIONAL FOOT EXTENSION/DEFIBRILLATOR TRAY

To use as a defibrillator tray, pull out the top knob (A) and pivot the tray (B) over the foot extension (C) until the tray extends flat over the foot end of the stretcher as shown in Figure 15.

To use as a foot extension, pull out knob (A) and pivot the defibrillator tray back until it locks against the foot extension (C). While holding onto the assembly, pull out the bottom knob (D) and lower the foot extension down until it is flat as shown in Figure 15.



**Figure 15 - Optional Foot Extension/
Defibrillator Tray - Foot End**

WARNING

If the stretcher is equipped with the optional foot end I.V. pole, the I.V. pole must be in the raised position when the foot extension/defibrillator tray is installed. If the I.V. pole is not raised, the foot extension will not function properly and injury could occur.

If the stretcher is equipped with the optional foot end push handles, use caution while the foot extension/defibrillator tray is installed to avoid pinching your fingers.

Stretcher Operation

OPERATING THE OPTIONAL SERVING TRAY

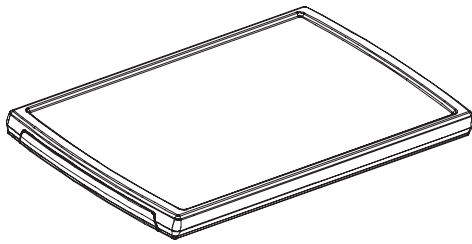


Figure 16 - Optional Serving Tray

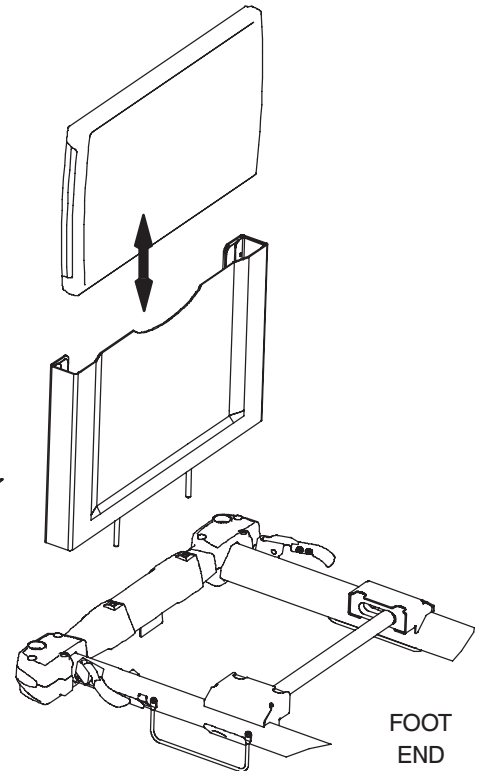
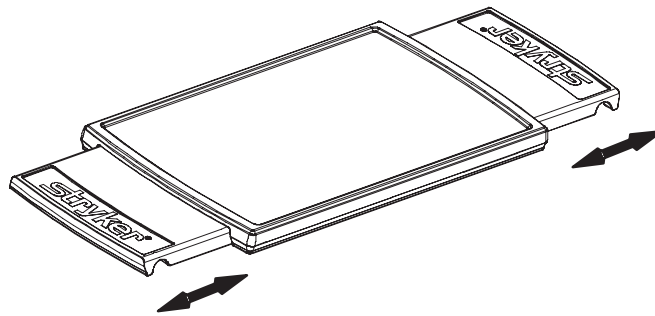


Figure 17 - Optional Serving Tray -
Foot End

To use the optional serving tray, pull out on either end of the serving tray to extend it to the proper width to fit on top of the stretcher siderails as shown in Figure 16.

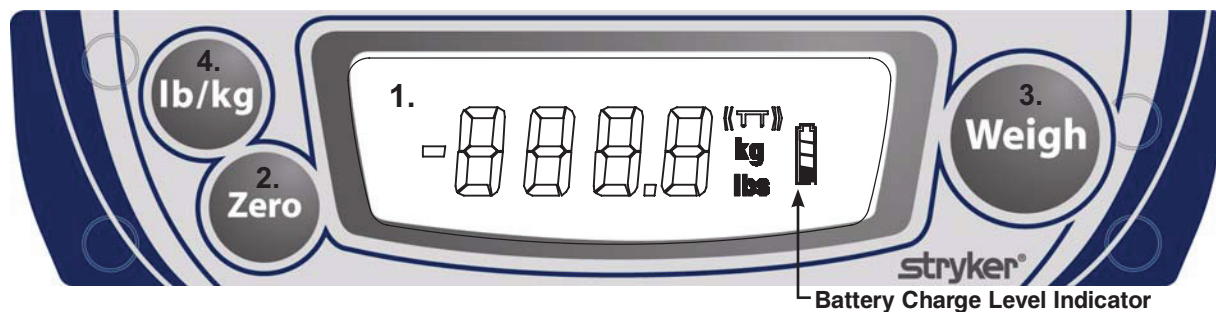
To store the serving tray in the optional serving tray holder/foot board, push in both ends of the serving tray and slide it into the holder as shown in Figure 17.

 **CAUTION**

To avoid damage, do not put items weighing more than 30 pounds on the serving tray.

Stretcher Operation

OPERATING THE OPTIONAL SCALE SYSTEM



- 1. Display** - Displays patient weight, unit of measurement and battery status.
- 2. “Zero”** - Push and hold for 2 seconds to zero the scale system before putting a patient on the stretcher. If the display flashes “hold”, press and hold the “Zero” button again until the display reads “rEL” (release). Release the “Zero” button. The display flashes “000.0”, then displays “000.0”. The system is not zeroed until the “000.0” stops flashing. For the most accurate results, always zero the scale system before putting a new patient on the stretcher. The display will shut off after approximately 40 seconds.
- 3. “Weigh”** - Push to weigh the patient. The display will show the patient’s weight for approximately 40 seconds before turning off.
- 4. “lb/kg”** - Push to display patient weight in pounds or kilograms.

Note

Do not touch the stretcher while the scale system is weighing or zeroing.

The patient must remain still while the system is weighing. If the patient is moving, the system will try for 20 seconds to get a stable weight or zero value before displaying the error message $\llcorner\llcorner$.

If there is a loose connection or a malfunctioning component, the display will show “Err”. Attempt the function again. If the system is functional, “Good” will display and the scale system is ready to use. If the malfunction is still present, the display shows “Err” again. Call Stryker technical support at 800-327-0770.

For the most accurate results, weigh the patient with the litter at zero degrees of Trend.

| SYMBOL | ACTION | DISPLAY |
|--------|---|---------------------------------------|
| | Press and release “WEIGH”. | ---- “XXX.X lb |
| | Press and hold “ZERO” | “hold “rEL” |
| | Release “ZERO” | “000.0” (flashing) “000.0” (solid) |
| | To convert the patient’s weight to kilograms, press and release “lb/kg” | “XXX.X kg |
| | Repeat to return to pounds. | “XXX.X lbs |

Stretcher Operation

USING THE OPTIONAL SCALE SYSTEM BATTERIES

Note

To avoid completely draining the batteries and having the optional scale system shut down, replace the batteries whenever only one of the charge indicator bars on the display is black (see “Operating the Optional Scale System” on [page 24](#)).

1. Remove the two Phillips head screws holding the battery compartment cover on the display assembly.
2. Replace all four AA batteries, being sure to install the positive and negative poles as indicated on the battery holder. Standard alkaline batteries are recommended. Do not mix old and new batteries or mix different types of batteries. Properly dispose of the old batteries in accordance with local regulations.
3. Reinstall the screws and the cover.

If the display is flashing “Lo Batt”, the batteries are drained and the scale system is disabled. Replace the batteries with four new AA batteries as described above.

Cleaning

These instructions are intended to provide recommended cleaning methods for stretcher mattresses. They outline proper care that will provide effective cleaning and disinfecting of mattresses between patients and prolong the life of the mattress.

RECOMMENDED CLEANING METHOD

- Hand-wash all surfaces of the mattress with warm water and mild detergent cleaner.
- Dry thoroughly.
- Apply disinfectant solution either by spray, solution or pre-impregnated wipes (do not soak mattress).
- Clean per hospital protocol for bed mattresses.
- Wipe up excess disinfectant.
- Rinse with clean water.
- Allow surface to dry.

RECOMMENDED DISINFECTANTS

IMPORTANT: DILUTE ALL DISINFECTANTS IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS

When used in concentrations recommended by the manufacturer, diluted bleach, diluted phenolic, or diluted quaternary germicidal disinfectants are recommended.

Chlorine Bleach, typically 5.25% Sodium hypochlorite, should be used at a dilution ratio of 1 part bleach to 10 parts water.

RINSE OFF CORROSIVE CLEANERS

These products are NOT considered mild detergents. They are corrosive in nature and may cause damage to your stretcher mattress if used improperly. Mattresses must be rinsed with clean water and dried thoroughly after using corrosives such as quaternary, phenolic, or chlorine bleach. Failure to properly rinse and dry the mattress leaves a corrosive residue on the surface, likely causing premature corrosion.

Iodophor type disinfectants are not recommended for use because staining may result.

The following table lists the recommended cleaner types for each mattress cover material (see definitions below):

| | Vinyl Mattress Cover | Polyurethane Mattress Cover |
|------------------------|------------------------------------|------------------------------------|
| Recommended | Phenolics | Quaternary, Quat/Isopropyl |
| Acceptable | Quaternary, Chlorine Bleach (1:10) | Chlorine Bleach (1:10) |
| Not Recommended | Quat/Isopropyl | Phenolics |

Quaternary Cleaners: identified by ingredients containing the phrase "...yl ammonium chloride"

Quat/Isopropyl Cleaners: identified by a quaternary ingredient above plus isopropyl alcohol

Phenolic Cleaners: identified by ingredients containing the suffix "-phenol"

Chlorine Bleach: known generically as "Sodium hypochlorite"

Cleaning

SPECIAL INSTRUCTIONS

Velcro: to clean and disinfect Velcro, saturate with disinfectant, rinse with water, and allow it to evaporate.

Soils or Stains: use neutral soaps and warm water. Do not use harsh cleansers, solvents or abrasive cleaners.

Hard-To-Clean Spots: use standard household/vinyl cleansers and a soft bristle brush on troublesome spots or stains. Pre-soak heavy, dried-on soil.

Laundering is NOT RECOMMENDED: laundering may substantially decrease the useful life of the mattress.

DO NOT STEAM CLEAN, PRESSURE WASH, HOSE OFF OR ULTRASONICALLY CLEAN MATTRESSES.
Using these methods of cleaning is not recommended and may void this product's warranty.

REMOVAL OF IODINE STAINS

1. Make a solution of 1–2 Tablespoons Sodium thiosulfate in a pint of warm water and use it to wipe the stained area. Clean the stain as soon as possible after it occurs. If stains are not immediately removed, allow solution to soak or stand on the surface before wiping.
2. Rinse surfaces which have been exposed to the solution with clear water before returning mattress to service.

NOTE

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

Preventative Maintenance

CHECKLIST

- _____ All fasteners secure.
- _____ Siderails move and latch properly.
- _____ All casters lock with brake pedal engaged.
- _____ All casters secure and swiveling properly.
- _____ Fowler operates and latches properly.
- _____ Trendelenburg/Reverse Trendelenburg operating properly.
- _____ Ground chain intact.
- _____ No leaks at hydraulic connections.
- _____ Hydraulic jacks holding properly.
- _____ Hydraulic oil level sufficient.
- _____ Body restraints working properly.
- _____ I.V. pole intact and operating properly.
- _____ Oxygen bottle holder intact and operating properly.
- _____ No rips or cracks in mattress cover.
- _____ Engage the drive wheel and ensure it is operating properly.
- _____ No excessive play in the drive handles.
- _____ Press the handle switches. Unit should not move unless the handles are pushed forward or pulled back.
- _____ Press the handle switches. Move the handles forward and back and verify the unit responds properly.
- _____ Confirm battery powered functionality.
- _____ No cables worn, pinched or frayed.
- _____ All electrical connections tight.
- _____ All grounds secure to the frame.
- _____ Ground impedance not more than 100 milliohms max: Test point(s) include electronics enclosure and motor chassis mounted to base of unit.
- _____ Current leakage not more than 300 microamperes (per UL 60601-1).
- _____ Batteries sufficiently charged (optional scale system).
- _____ Display housing intact and not damaged (optional scale system).
- _____ Display label intact and not damaged (optional scale system).
- _____ Load cells intact and not damaged (optional scale system).
- _____ Scale calibrated properly. Recalibrate, if necessary (optional scale system).

| | | |
|--------------------------|--|--|
| Stretcher Serial Number: | | |
| | | |
| | | |
| | | |

Completed by: _____

Date: _____

Note

Preventative maintenance should be performed at a minimum of annually. A preventative maintenance program should be established for all Stryker Medical equipment. Preventative maintenance may need to be performed more frequently based on the usage level of the product.

Notes

Warranty

LIMITED WARRANTY

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser the SM304 M-Series Stretcher to be free from defects in material and workmanship for a period of two (2) 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 which is, in the sole discretion of Stryker, found to be defective. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to the factory. Any improper use or any alteration or repair by others in such manner as in Stryker's judgment 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.

Stryker Medical Stretcher products are designed for a 10 year expected service life under normal use, conditions, and with appropriate periodic maintenance as described in the maintenance manual for each device. Stryker warrants to the original purchaser that the welds on its Stretcher products will be free from structural defects for the expected 10 year life of the Stretcher product as long as the original purchaser owns the product.

This statement constitutes Stryker'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 here under for incidental or consequential damages arising from or in any manner related to sales or use of any such equipment.**

TO OBTAIN PARTS AND SERVICE

Stryker products are supported by a nationwide network of dedicated Stryker Field Service Representatives. These representatives are factory trained, available locally, and carry a substantial spare parts inventory to minimize repair time. Simply call your local representative, or call Stryker Customer Service USA at 1-800-327-0770.

SERVICE CONTRACT COVERAGE

Stryker has developed a comprehensive program of service contract options designed to keep your equipment operating at peak performance at the same time it eliminates unexpected costs. We recommend that these programs be activated before the expiration of the new product warranty to eliminate the potential of additional equipment upgrade charges.

A Service Contract helps to:

- Ensure equipment reliability
- Stabilize maintenance budgets
- Diminish downtime
- Establish documentation for JCAHO
- Increase product life
- Enhance trade-in value
- Address risk management and safety

Warranty

SERVICE CONTRACT PROGRAMS

Stryker offers the following service contract programs:

| Service Agreement Options | Gold | Silver | PM* only |
|---|------|--------|----------|
| Annually scheduled preventative maintenance | X | | X |
| All parts**, labor, and travel | X | X | |
| Unlimited emergency service calls | X | X | |
| Priority one contact: two hour phone response | X | X | |
| Most repairs will be completed within 3 business days | X | X | |
| JCAHO documentation | X | X | X |
| On-site record of PM & emergency service | X | | X |
| Factory-trained Stryker service technician | X | X | X |
| Stryker authorized parts used | X | X | X |
| Service during regular business hours (8-5) | X | X | X |

* Replacement parts and labor for products under PM contract will be discounted.

** Does not include any disposable items, I.V. poles (except for Stryker HD permanent poles), mattresses, or damage resulting from abuse.

Stryker Medical also offers personalized service contracts.
Pricing is determined by age, location, model and condition of product.

**For more information on our service contracts,
please call your local representative.**

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.

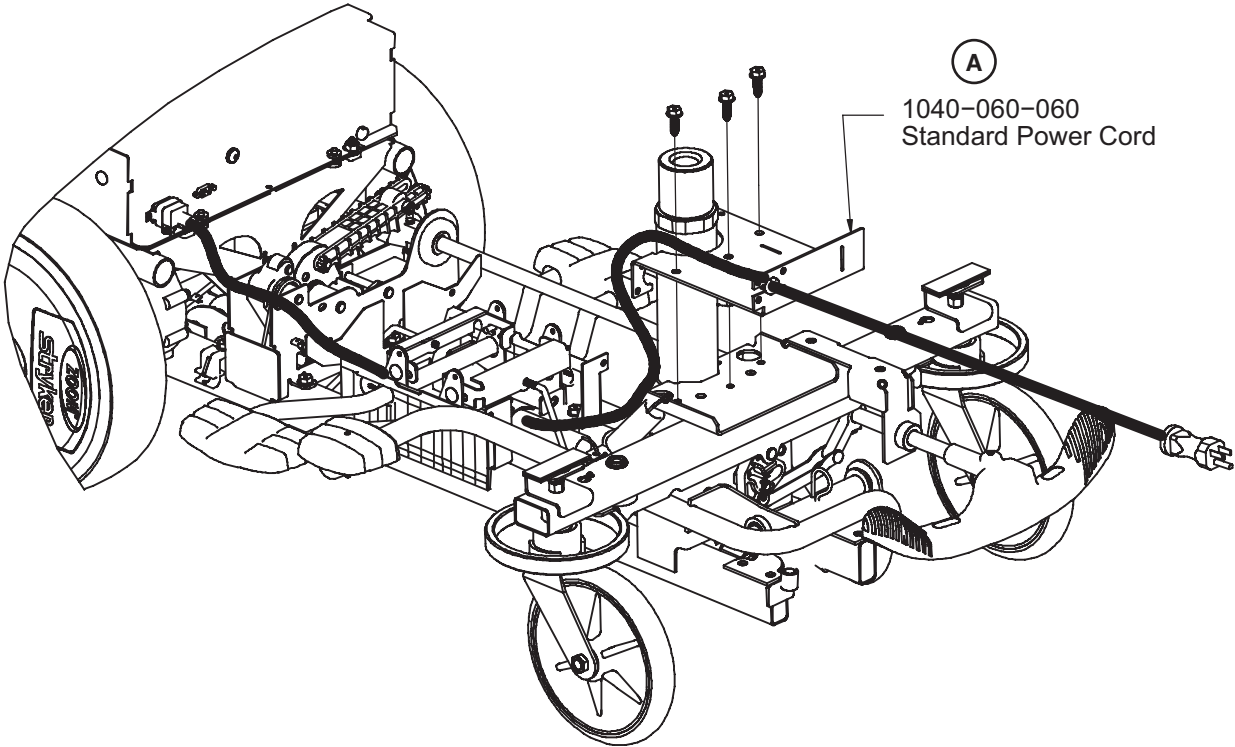
INTERNATIONAL WARRANTY CLAUSE

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.

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Recycling Passport

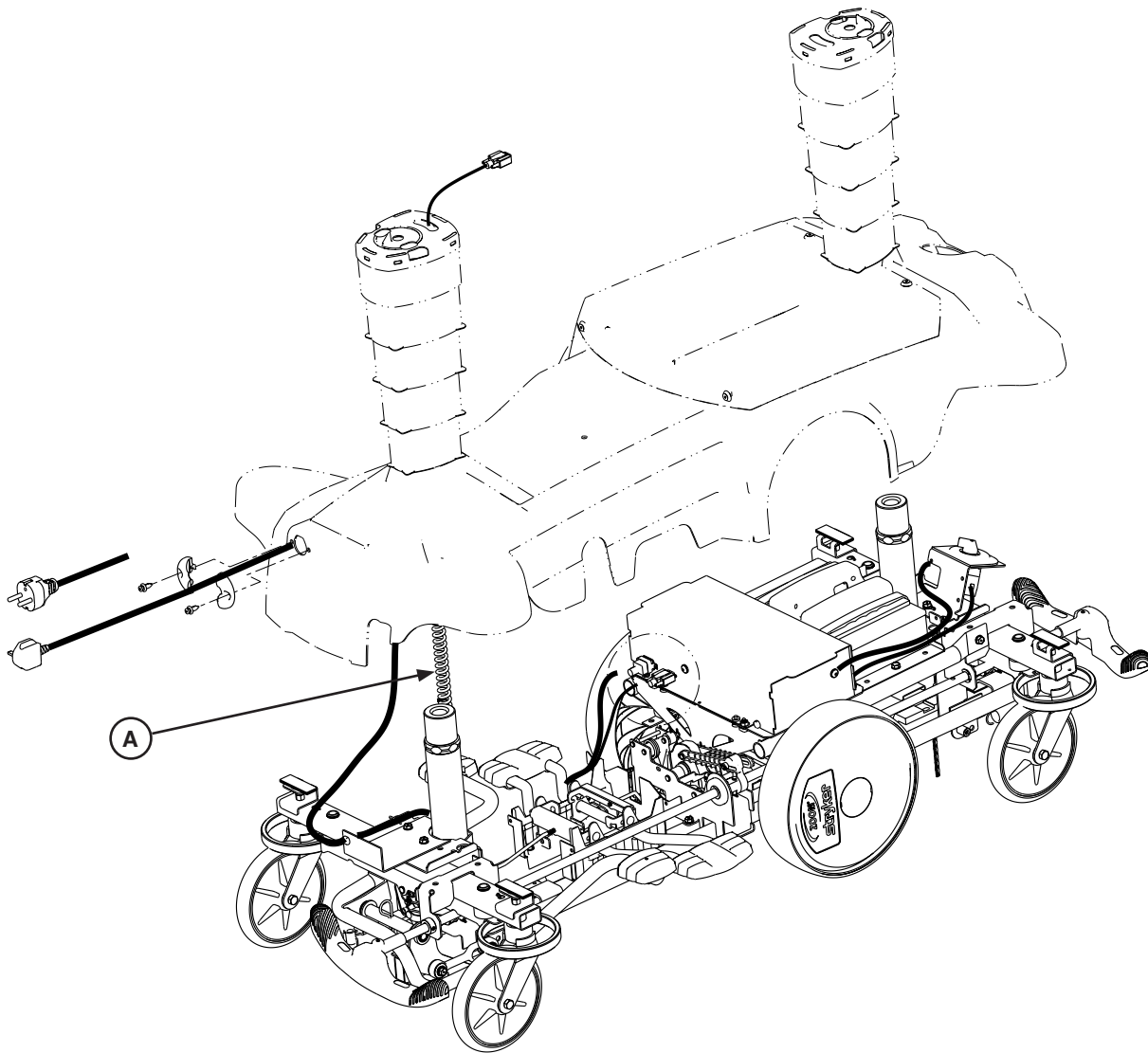
ASSEMBLY PART NUMBER: 1040-010-101
 (Reference Only)



| Item | Recycling/Material Code | Important Information | Qty |
|------|---|-----------------------|-----|
| A | Power Cord (1040-060-060, 1040-060-050) | | 1 |

Recycling Passport

ASSEMBLY PART NUMBER: 1040-010-101
(Reference Only)

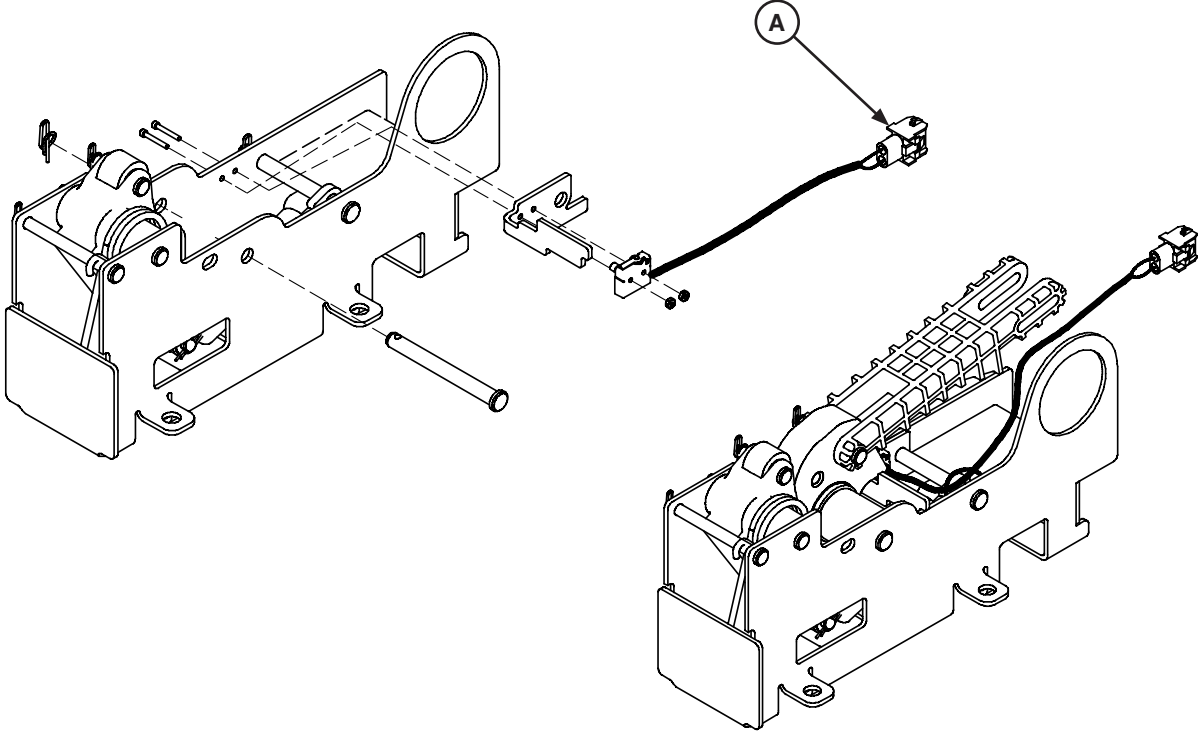


| Item | Recycling/Material Code | Important Information | Qty |
|------|--------------------------------|-----------------------|-----|
| A | Coil Cable Plug (1040-010-801) | | 1 |

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Recycling Passport

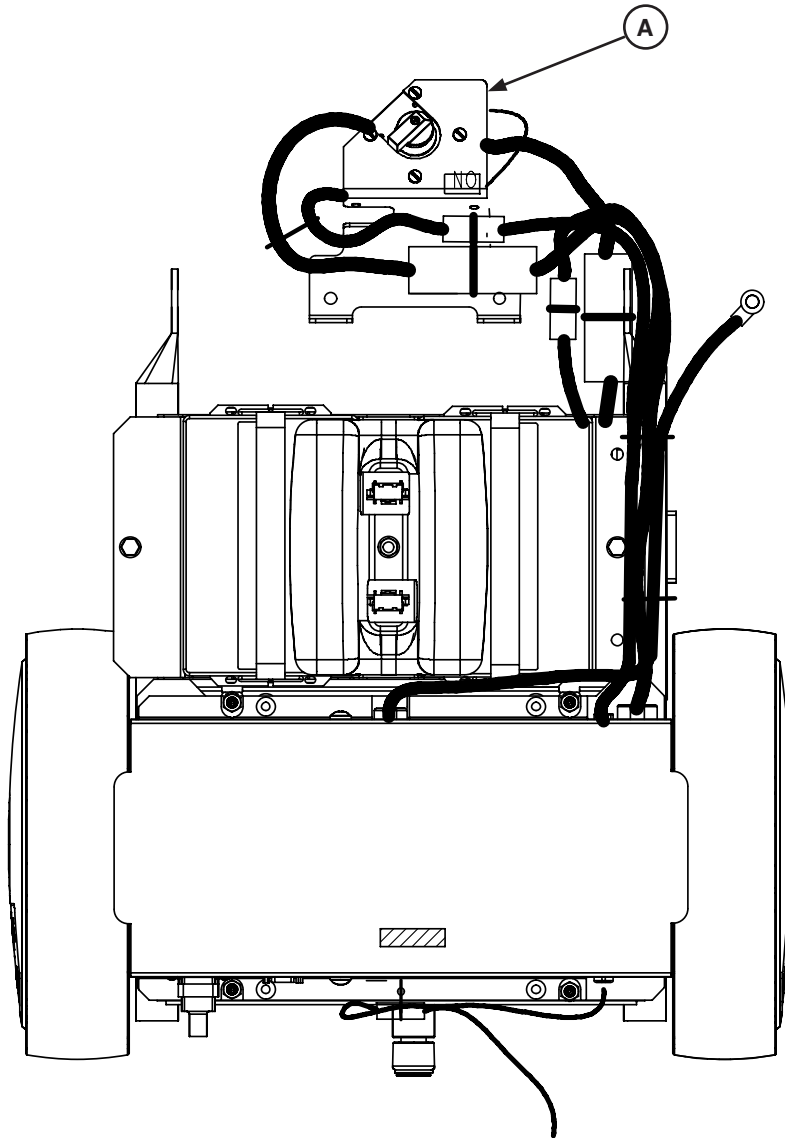
ASSEMBLY PART NUMBER: 1040-006-301
(Reference Only)



| Item | Recycling/Material Code | Important Information | Qty |
|------|-----------------------------------|-----------------------|-----|
| A | Cam Position Cable (1040-010-807) | | 1 |

Recycling Passport

ASSEMBLY PART NUMBER: 1040-020-101
(Reference Only)

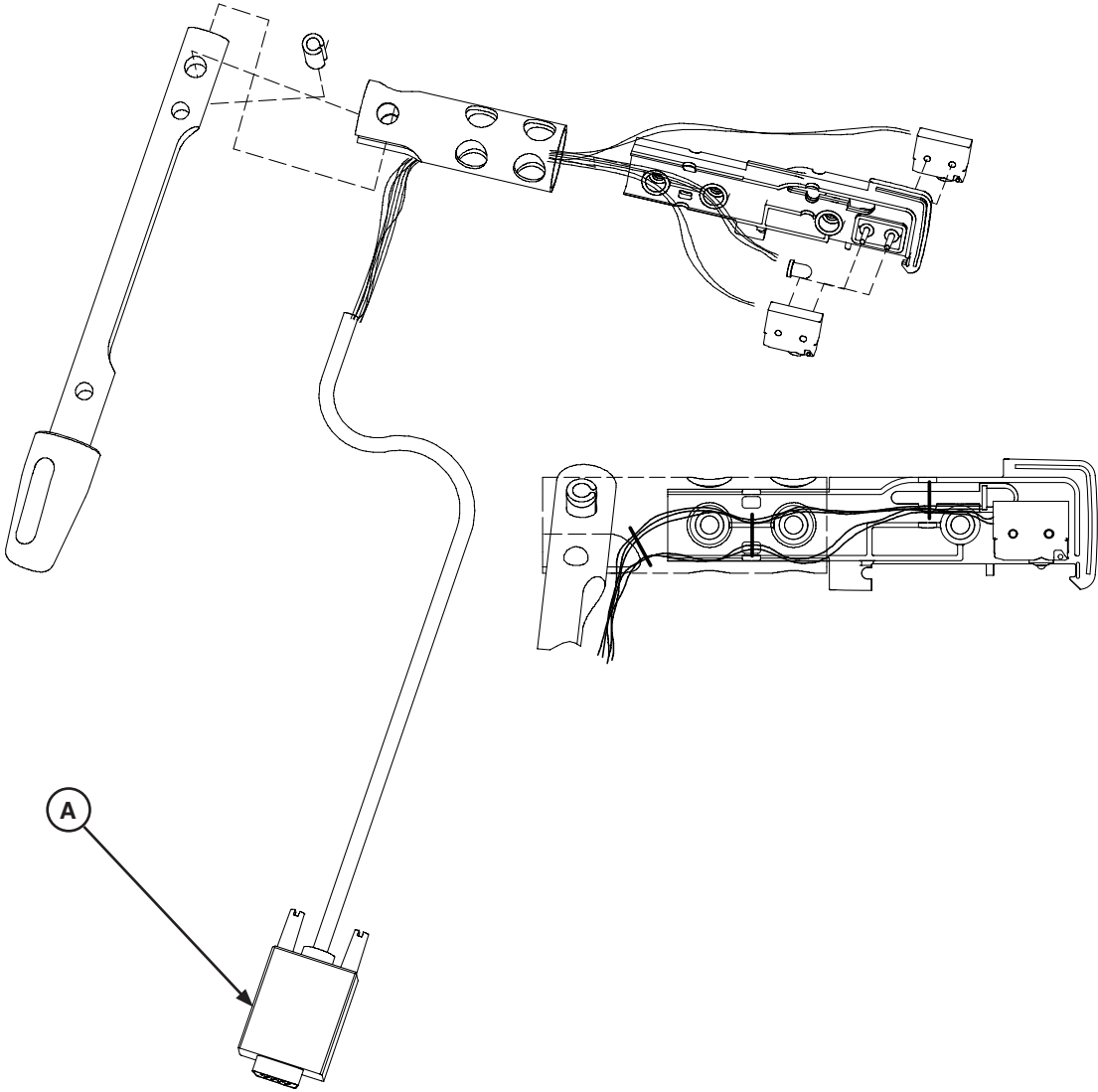


| Item | Recycling/Material Code | Important Information | Qty |
|------|---------------------------------------|-----------------------|-----|
| A | Manual Override Switch (1040-010-830) | | 1 |

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Recycling Passport

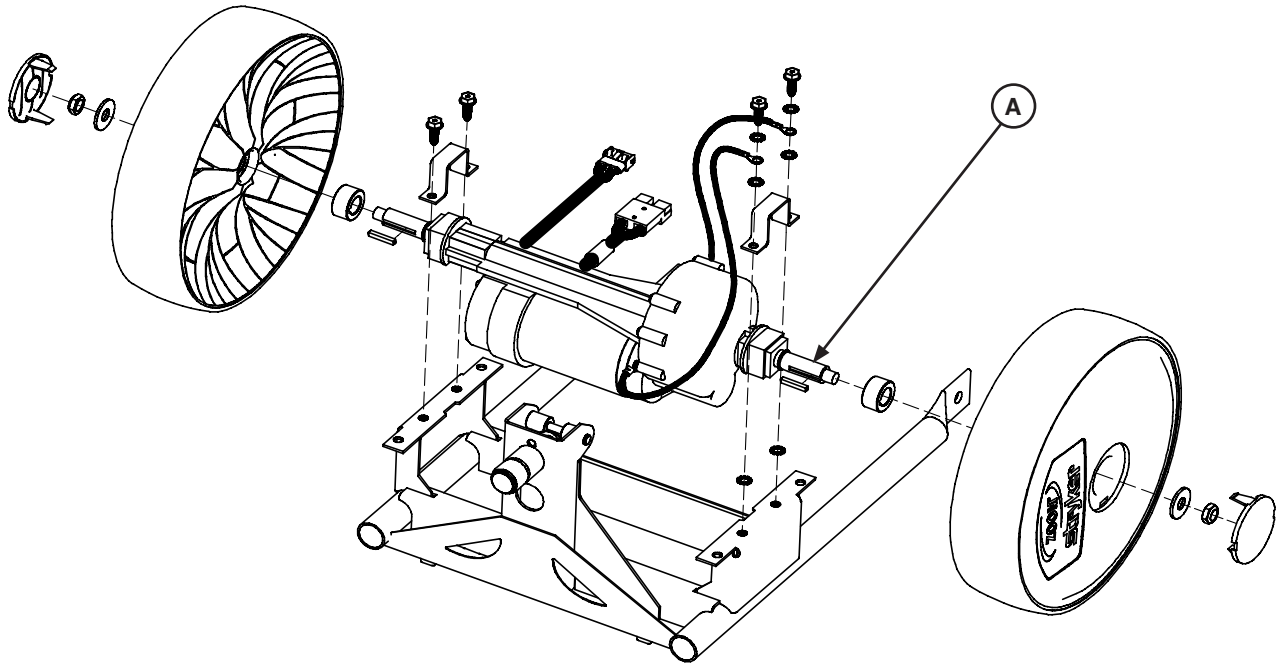
ASSEMBLY PART NUMBER: 1040-007-210
(Reference Only)



| Item | Recycling/Material Code | Important Information | Qty |
|------|-----------------------------|-----------------------|-----|
| A | Switch Cable (1040-050-805) | | 1 |

Recycling Passport

ASSEMBLY PART NUMBER: 1040-020-101
(Reference Only)

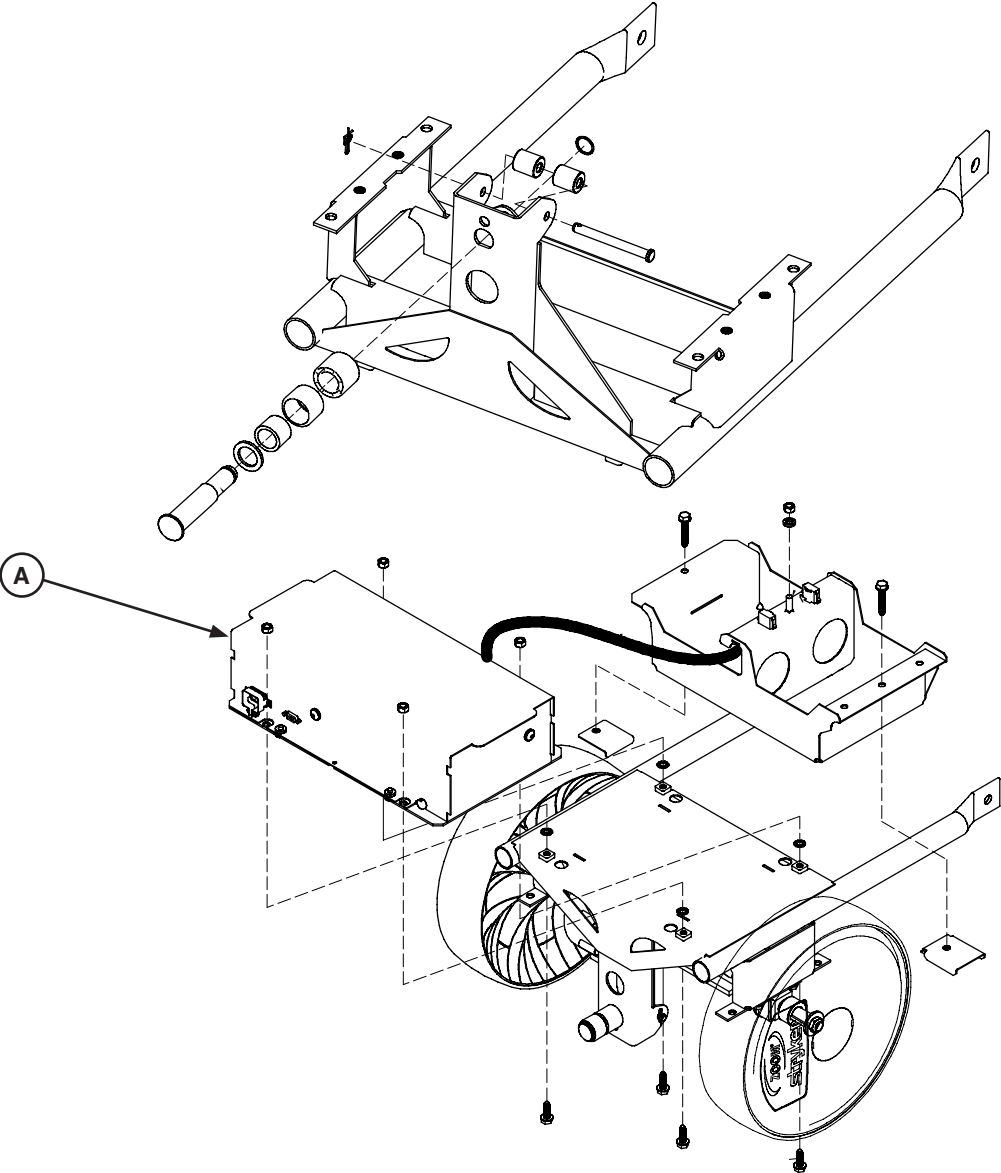


| Item | Recycling/Material Code | Important Information | Qty |
|------|---------------------------------|-----------------------|-----|
| A | Motor Drive Unit (1040-010-820) | | 1 |

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Recycling Passport

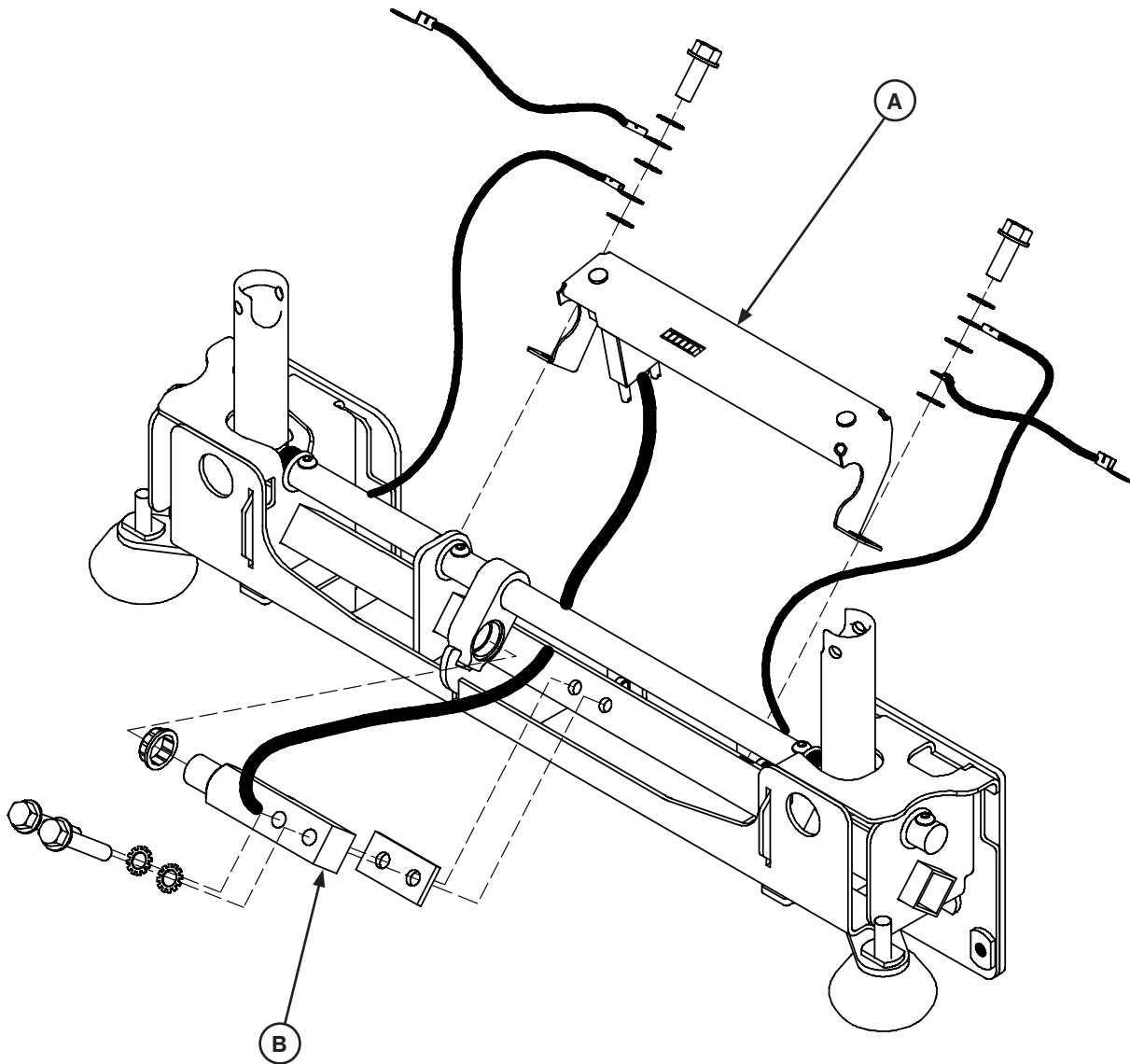
ASSEMBLY PART NUMBER: 1040-020-101
 (Reference Only)



| Item | Recycling/Material Code | Important Information | Qty |
|------|------------------------------|-----------------------|-----|
| A | Circuit Board (1040-210-859) | | 1 |

Recycling Passport

ASSEMBLY PART NUMBER: 1040-007-200, 1040-007-300
(Reference Only)

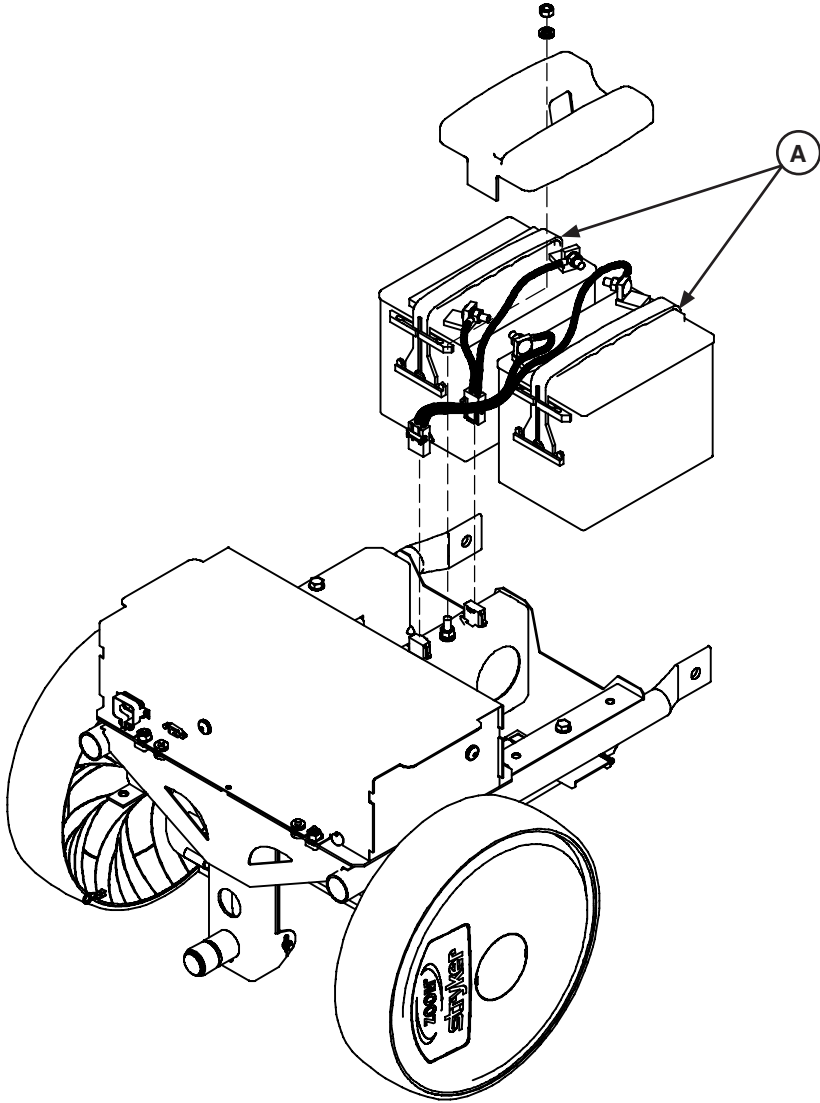


| Item | Recycling/Material Code | Important Information | Qty |
|------|------------------------------|-----------------------|-----|
| A | Circuit Board (1040-050-125) | | 1 |
| B | Load Cell (3002-307-057) | | 1 |

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Recycling Passport

ASSEMBLY PART NUMBER: 1040-020-101
 (Reference Only)



| Item | Recycling/Material Code | Important Information | Qty |
|------|--------------------------|-----------------------|-----|
| A | Batteries (1040-010-870) | | 2 |

UNITED STATES
Stryker Medical
3800 E. Centre Ave.,
Portage, Michigan 49002
USA

CANADA
Stryker Canada
45 Innovation Drive
Hamilton, Ontario L9H 7L8
Canada

| | |
|----|-----|
| EC | REP |
|----|-----|

European Representative
Stryker France
ZAC Satolas Green Pusignan
Av. De Satolas Green
69881 MEYZIEU Cedex
France

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