

1. Setting up your equipment:

Home Use:

- Fill bag and hang on IV Pole. (*Picture 1*)
- Attach tubing to pump. (*Picture 2*)
- Pump should be set to OFF before plugging into electrical outlet.
- Plug Input 120 V, 60Hz, 200 mA

Ambulatory:

- Check for battery charge.
- Fill bag. (*Picture 3*)
- Attach to pump.
- Place into ambulatory bag.

Picture 1



Picture 2



Picture 3

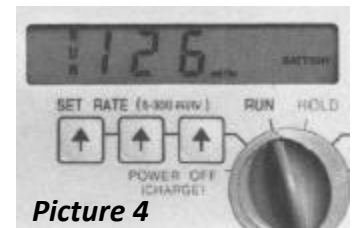


2. Using your equipment:

- Turn pump dial to the Set Rate position, and set designated food rate (mL/hr). (*Picture 4*)
- Locate correct dose and set to instructions.
- Press/Turn/Set to run

*If product is not filled at bedside, it is advisable to close slide clamp before transporting.

*Make sure slide clamp is open for set up.



Picture 4

3. Frequent replacement items:

Tubing (*Picture 5*)



Feeding bags (*Picture 6*)



4. Special Procedures:

- Ambulatory Pump:

- Must have correct ambulatory bag for pump and tubing bags to work properly. Brands may differ. Check instructions for placement of pump and bag.

- A new pump should be plugged into an A/C outlet before initial use for directed amount of time to assure full battery charge.

5. Safety Issues:

- Alarm Sounding:
 - Check for kink(s) in the tubing.
 - Check for empty bag (do not operate pump with empty bag)
 - Check for low battery
 - Check for clogging in the line, slide the clamp to assure its completely open.
 - Check drip chamber to be sure its not more than 1/4 full or coated with product.
 - Be sure all bags and tubing are compatible with the pump you are using.

6. Maintenance:

- The outside of the pump can be cleaned with warm soapy water.
- The pump cavity can be cleaned with a cotton swab or soft cloth and warm soapy water. **DO NOT CLEAN WITH ALCOHOL.**
- Pump should be turned off or recharge battery (if available) when not in use.
- **DO NOT SUBMERGE OR AUTOCLAVE** the pump or charger.

*** Please contact your local CareLinc provider for any questions, adjustments, or repairs. ***



Enteral formulas are liquid food products that are specially formulated and designed to increase the amount of various food elements and nutrients that will maintain proper physiological function of the body process. They may also be used to correct an existing deficiency.

Proper Use of Enteral Nutrition Formula: Your enteral feeding may be given by mouth or by a feeding tube. Use the amount recommended by your doctor.

For patients taking the **oral liquid** form of enteral nutrition:

- This preparation is in ready-to-use form. No dilution is needed unless directed by your physician.
- Shake the preparation well before opening. Refrigerate after opening, out of the reach of children. Most formulas can be kept in the refrigerator for 1 to 2 days. Check the label of your product.

For patients using the **powder** form of this preparation:

- For mixing or other use, follow carefully the instructions on the package.
- Any unused solution should be kept in the refrigerator, out of the reach of children. Most formulas can be kept in the refrigerator for 1 to 2 days. Check the label of your product.

Storage

To store the unopened container:

Keep out of the reach of children.

Store away from heat and direct light.

Do not store in the bathroom, near the kitchen sink, or in other damp places. Heat or moisture may cause the enteral nutrition formula to break down.

Keep the enteral nutrition formula from freezing. Do not refrigerate, unless the product has been opened or mixed.

Do not keep outdated enteral nutrition formulas or those no longer needed. Be sure that any discarded enteral nutrition formula is out of the reach of children.

Never tamper with the label on enteral nutritional formula.

Always refer to the label for usage, safety and storage information.



CareLinc Medical Equipment
www.carelincmed.com
888.810.5462

BENEFICIARY NAME: _____

DATE: _____

ADDRESS: _____

ITEM: ENTERAL FOOD PUMP

Medicare requires your supplier to give you the option of purchasing the enteral food pump that you are being setup with today. This means, if you accept the purchase option, Medicare will be billed for the full purchase price of the enteral pump. You will be responsible for the 20% coinsurance and any remaining deductible with Medicare.

Should you decide to not elect the purchase option, Medicare will make 15 monthly rental payments. You will be responsible for the 20% coinsurance each month as well as any remaining deductible with Medicare.

In making your decision to rent or purchase the equipment, your supplier may charge you coinsurance as well as any remaining deductible with Medicare each time that your equipment is actually serviced after the 15 rental months.

Please indicate your choice today in the area below. If you have any questions, please feel free to call us at the number listed at the top of this letter.

Options:

Continued Rental

Purchase

BENEFICIARY SIGNATURE: _____

DATE: _____

ACCT. # _____

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KANGAROO JOEY™

Enteral Feeding Pump

Operation and Service Manual

Enteral Feeding Pump — Operation and Service Manual

Nutripompe — Manuel d'utilisation et d'entretien

Pumpe für die enterale Ernährung — Betriebs- und Serviceanleitung

Pompa di alimentazione enterale — Manuale operativo e di manutenzione

Bomba para alimentación enteral — Manual de operación y servicio

Enteral matningspump — Användar- och servicemanual

Enterale voedingspomp — Handleiding voor bediening en onderhoud

Bomba de alimentação entérica — Manual de funcionamento e assistência

Enteraalinen ravitsemuspumppu — Käyttö- ja huolto-opas

Pumpe til enteral ernæring — Betjenings- og servicehåndbog

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Pumpa pro enterální výživu — Provozní a servisní příručka

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Enteral ernæringspumpe — Bruker- og vedlikeholdshåndbok

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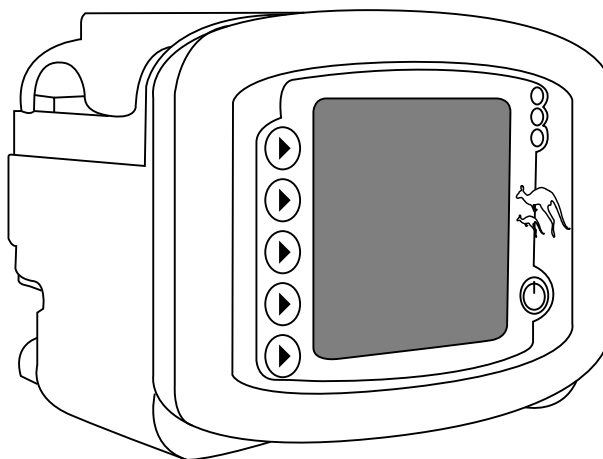
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182404

Thank you for purchasing the KANGAROO JOEY™ Enteral Feeding Pump.
With proper care, this device will provide you with years of precision service.

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Section I – General Information

The KANGAROO JOEY enteral feeding pump is a simple-to-use, precision enteral feeding pump. It is easily programmed to provide patients with either continuous or intermittent feeding, and can provide automatic flushing capability when used with KANGAROO ePump™ Feed & Flush Sets.

User Interface:

- Intuitive user interface
- Large, backlit LCD display
- Step-by-step prompts to guide programming and operation
- “Stoplight” LED array visually indicates pump status in a bright or darkened room

Ergonomics:

- Quiet operation
- Compact, portable aesthetic design
- Tabletop usage or IV pole mounting
- Simple loading of pump sets
- Transparent top door to protect pump set
- Water-resistant
- “Soft Touch” rubberized casing for easy grip and drop protection
- “Quick Release” pole clamp for easy detachment of pump

Features:

- MISTIC (Magnetic Intelligent Set Type Identification Connector) Feed-Only vs. Feed & Flush Set identification system to ensure match between the pump’s user interface and pump set type
- Automatic Anti-Free-Flow (AFF) System
- Audible alarm to indicate errors or pump set loading conditions
- Orientation-independent delivery design eliminates need for drip chamber on pump set
- Sensor technology detects both upstream and downstream flow conditions
- Continuous feed, intermittent feed, and flush capability
- Auto-prime feature reduces the need for time-consuming manual priming
- Hold feature with restart
- “Keep Tube Open” (KTO) feature
- Stores previous 72 hours of feeding and flushing history
- 15 Languages
- All sets operating on the KANGAROO ePump will also operate on the KANGAROO JOEY

Service:

- Serial I/O port for data retrieval and software updates
- Uses replaceable, rechargeable Lithium-Ion Battery Pack for 18 hours of backup power
- Easily removable power cord

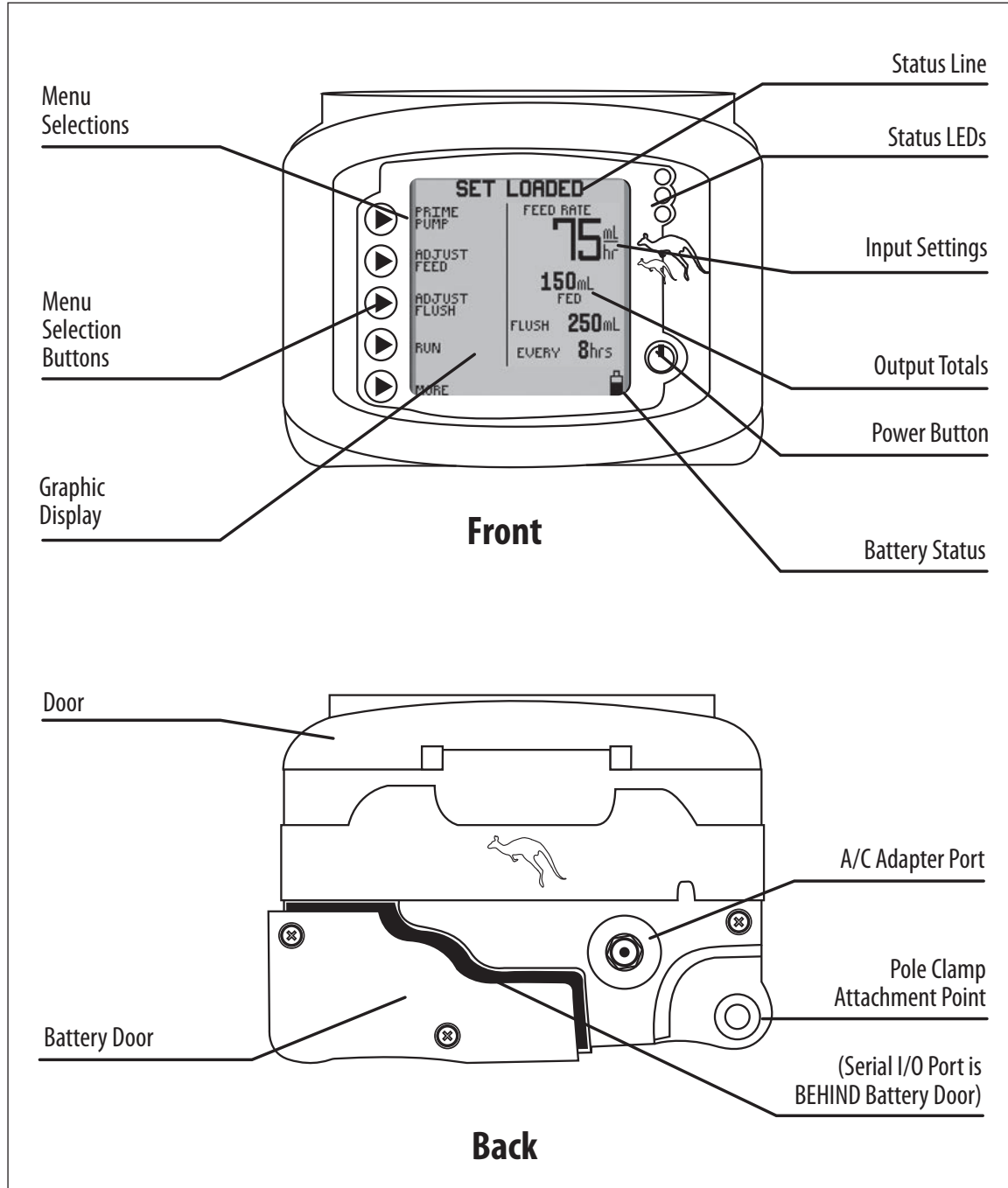


Figure 1A. KANGAROO JOEY features, front and rear views.

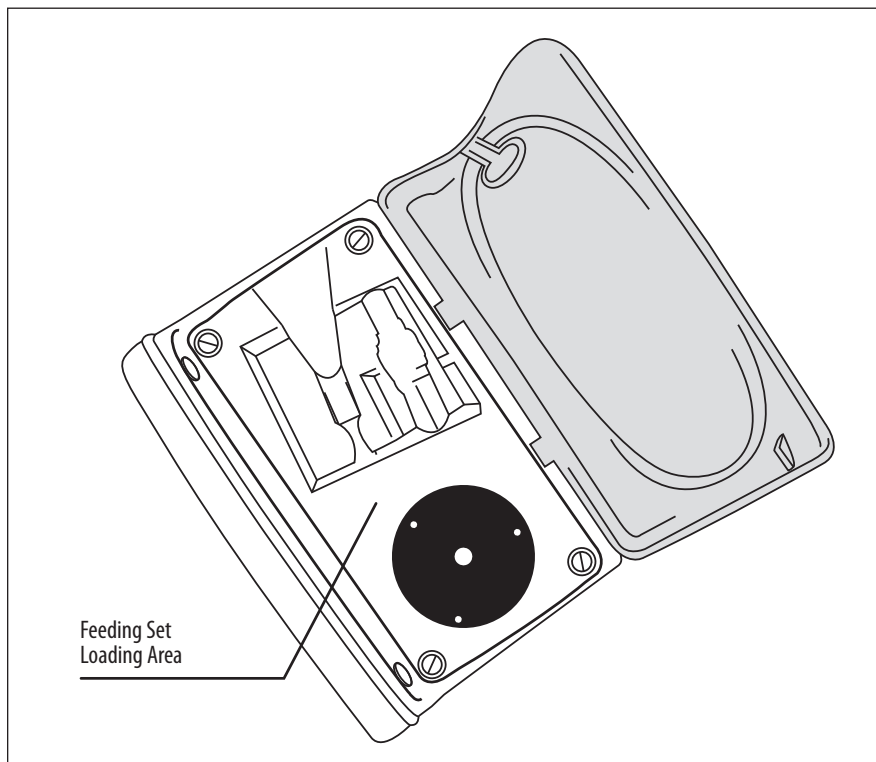


Figure 1B. KANGAROO JOEY pump set loading area.

Section II — Safety and Warnings

CAUTION: U.S. federal law restricts the sale of this device to physicians or to their direct representatives.

1. Read this booklet thoroughly before using the KANGAROO JOEY enteral feeding pump.
2. Do not use this device near flammable anesthetics.
3. Disconnect power supply before cleaning or servicing.
4. Use only KANGAROO JOEY enteral feeding pump power cord (with built-in A/C adapter) with pump. See Section XIII - Service Part Numbers for replacement of power cord.
5. Use only KANGAROO ePump enteral feeding pump sets with this device. Pump is not compatible with other pump sets.
6. For re-certification, see Section VI - Re-certification of Performance. For other integrity checks, consult with a qualified Biomedical Technician or contact the manufacturer (Section XI - Customer Service).
7. For service or for technical information, please contact Customer Service (Section XI).
8. Do not open the main housing, as there are no user-serviceable parts inside. Opening may affect function of device and voids the warranty. To replace battery, see Section VIII.
9. Dispose of old battery-powered electronic equipment in a manner consistent with institutional policy for expired equipment disposal.
10. Cleaning frequency and practices must be consistent with institutional policy for cleaning of non-sterile devices. See Section VII - Cleaning, for instructions on cleaning the KANGAROO JOEY enteral feeding pump.
11. See icon descriptions in Section III - Icon Identification and Section X - Specifications and Symbols for additional safety information.

12. This device is designed to minimize the effects of uncontrolled electromagnetic interference and other types of interference from external sources. Avoid use of other equipment that may cause erratic operation or degradation in the performance of this device.
13. **WARNING:** The serial I/O port (see Figure 1A) is intended only for use by the manufacturer.
 Any accessory equipment that can be connected to the serial I/O port, and which does not comply with the equivalent safety requirements of this equipment, may lead to a reduced level of safety of the pump. While use of the pump's serial port is not recommended for customers, the following should be considered in the event that the customer decides to connect to this port:
 - The accessory is specifically certified as complying with the safety requirements for accessories used with the pump, whereas the safety certification of the accessory has been performed in accordance to the appropriate IEC 60601-1 and/or IEC 60601-1-1 harmonized standard.
14. **CAUTION:** This enteral feeding pump should only be used for patients who can tolerate the flow rates and accuracy levels delivered by the pump. Premature infants may require higher accuracy rates than specified for this enteral feeding pump.

Section III – Icon Identification

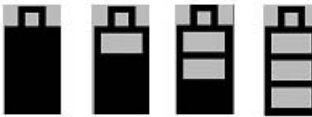
Run Mode

Vertically-moving droplet in *RUNNING* screen indicates Run mode.



Battery Symbols

- Full charge
- 2/3 or less charge
- 1/3 or less charge
- Very low battery (15 minutes max.)



Auto Priming Indicator

When auto priming, the bar will progress to show auto prime feature is active.



Volume Setting

Indicates alarm volume setting.



Error Indicator

Pump operations are stopped until the error is resolved.



Information Indicator

This indicates information only, and does not require any immediate action.



EZMODE Indicator

Indicates that EZMODE feature is activated.



Communication Indicator

Indicates that communication feature is activated.



Volume to be Delivered Indicator

Indicates that a VTBD has been programmed.



Keep Tube Open

Indicates that Keep Tube Open feature is in operation.



Section IV — Initial Setup

Attaching the A/C Adapter Power Cord

Plug the Power Cord into the A/C Adapter Port on the back of the pump. See Figure 1A to locate port on pump.

NOTE: It is important to make sure the power plug is pushed all the way into the pump for proper operation. If the display screen shows the pump is running on battery power after plugging in the A/C Adaptor, check to make sure the A/C Adaptor plug is flush with the back of the pump.

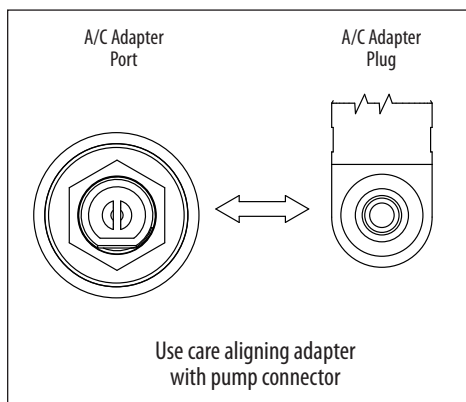


Figure 2A. Alignment of A/C Adapter plug with pump's adapter port.

Do not detach the connector by pulling on the cord only.

(A cord extension accessory is available that will allow the wall plug to be separated from the power transformer, see Fig. 2B. The cord extension order number is located on page 38.)

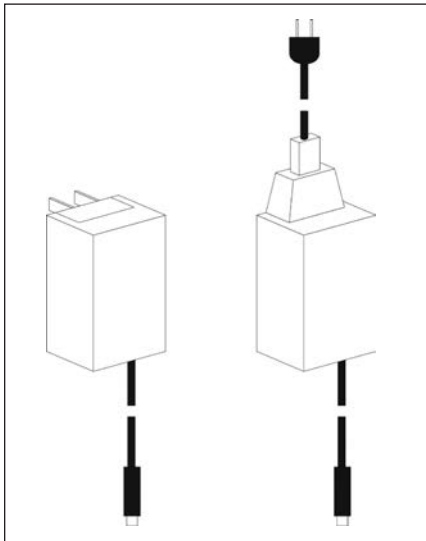


Figure 2B.

Battery Setup

The battery pack is fully charged before shipping.

It is also recommended that the battery charge be “topped off” before battery-only operation is utilized. The battery pack will charge continuously whenever the pump is plugged into a wall outlet, including during normal use of the pump with A/C power. 6 hours of charging is required to fully recharge the battery pack.

A new battery pack will provide approximately 18 hours of service before needing to be recharged.

Attaching Pole Clamp

The KANGAROO JOEY enteral feeding pump can be attached to a vertical pole using the pole clamp which is included with the pump (a flexible arm pole clamp may also be purchased and attached to the vertical pole – Figure 3B). The pole clamp provides the ability to retain the power cord to prevent accidental cord removal or cord loss. Simply wrap the cord around the cord wrap posts to ensure that the cord stays with the pump.

To attach the pole clamp to the pump, simply slide the clamp onto the mounting stud on the back of the pump (Figure 3A). When engaged, turn the lever to secure attachment.

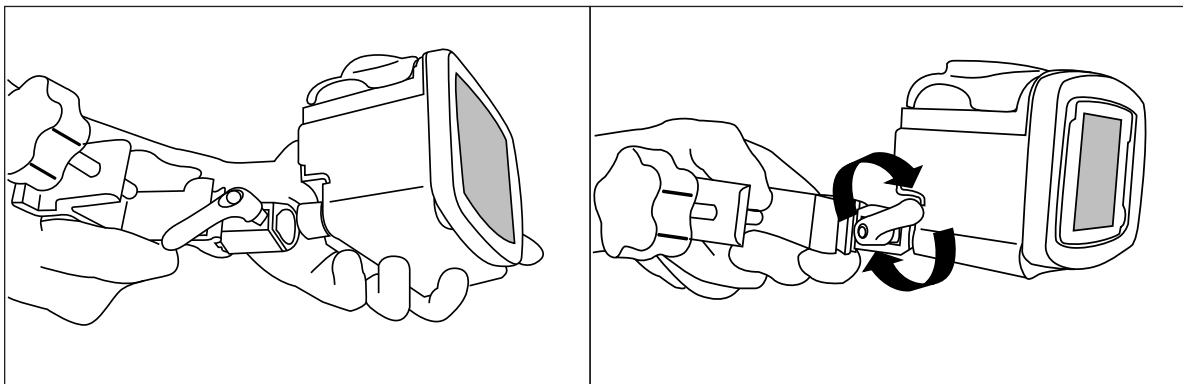


Figure 3A.

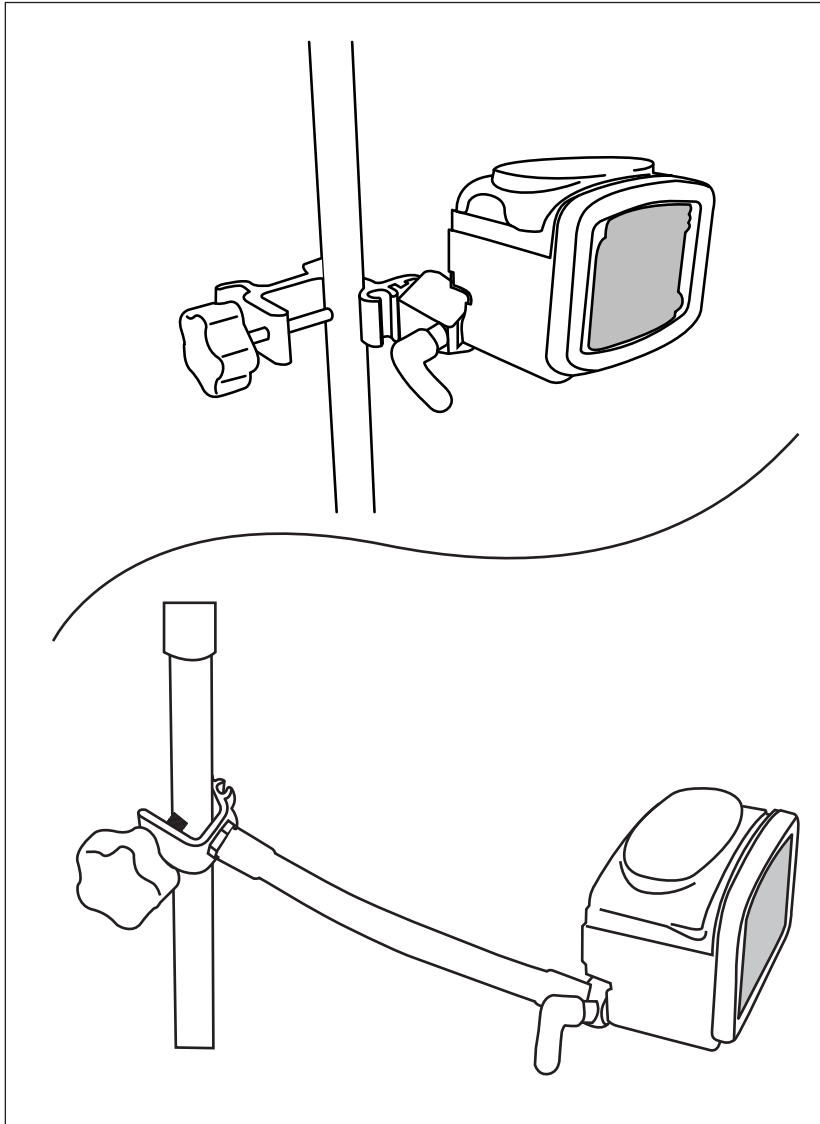


Figure 3B. Attaching and using the Pole Clamps.

Section V — Instructions For Use

Quick Start

1. Press **POWER** on lower, right-hand corner of control panel.
2. Open blue door enclosing pump set loading area.
3. To load pump set (refer to Figure 4):
 - Grasp finger tab on valve and insert into left pocket (1).
 - Grasp black ring retainer and gently stretch tubing around rotor (2). Pull up on retainer and insert into right pocket (3).
 - Press down on finger tab to ensure that valve is fully seated.

- Close blue door.
- (**Note:** display status line should read **SET LOADED**).
4. To automatically prime the pump, press ► **PRIME PUMP** and ► **AUTO PRIME**. For Feed & Flush sets, auto priming will prime both lines.
 5. To directly control pump priming, press ► **PRIME PUMP** and then press and hold the **HOLD TO PRIME** button(s) ► . If a Feed & Flush Set is used, remember to first press ► **HOLD TO PRIME FLUSH** until the flushing fluid has reached the valve, and then press ► **HOLD TO PRIME FEED** until the feeding fluid has reached past the valve and down to the distal end connector.
 6. Use buttons ► on left side of LCD to set the feeding parameters. Set flushing parameters if a Feed & Flush Set is loaded. The continuous or intermittent feed mode selection is made under the **MORE** options menu.
 7. Press ► **RUN** when ready to start. The screen will display **RUNNING**.
 8. To stop, press ► **HOLD** or press and hold the **POWER** button.

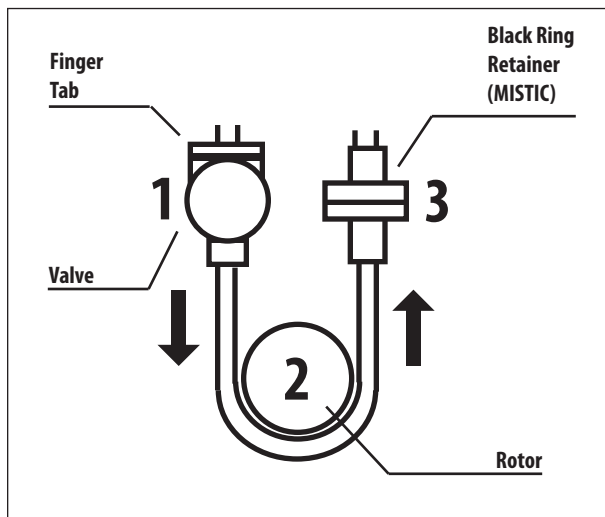


Figure 4.
Installation of
Pump Set.

General Startup

Placement/Mounting

There are two recommended placement methods for the KANGAROO JOEY enteral feeding pump.

- Attached to a vertical IV pole via the pole clamp peripheral device, included with the pump.
- Placed on any stable surface.

A/C Power Operation

Plug the KANGAROO JOEY enteral feeding pump into an A/C power outlet for normal operation. When the pump is not plugged in, or if A/C power is interrupted, a built-in rechargeable battery will run the pump.

Battery Power Operation

If A/C power is not available to the pump, or if A/C power is interrupted, the pump will automatically operate on backup battery power. The built-in battery recharges any time the pump is plugged into an outlet.

A fully-charged, new battery will supply 18 hours of backup power at 125 mL/hr before requiring recharging. Contact Customer Service, Section XI, to replace the battery pack if battery life degrades.

Power On/Off

To power up the pump, press the **POWER** button on the lower right of the front panel. To power down the pump, press and hold the **POWER** button until the pump display turns off.

Language Selection, First Power Up

Immediately after powering up the pump for the *first time*, the language option screen will appear. Select the language using the (**↑**) or (**↓**) buttons. When the language is selected, push the fifth button (**→**) to enter the language selection. After the language is selected the first time the pump is powered up, the language selection screen will not appear during future power up operations. Should the language need to be changed after the initial power up, it can be changed through the “**MORE OPTIONS**” menu (see Figure 10A).

Keep or Clear Prior Pump Settings

Immediately after powering up the pump, if the prior feed or flush settings were not cleared and the settings are not locked in the BioTech Screen, the pump will give the following two options:

KEEP SETTINGS - Select this option to start with the same settings that were most recently programmed into the pump. Any of the previously-programmed settings can be modified, if needed. The feed volume totals, “**mL FED**” (Continuous Feed Mode) or “**BOLUSES FED**” (Intermittent Feed Mode) and “**mL FLUSH**” are also maintained.

CLEAR SETTINGS - Select this option to reset all input feeding settings and the output feed totals to zero. It will then be necessary to program all settings before running the pump. The BioTech options settings will not change.

Note: The output feed totals (“**mL FED**,” “**BOLUSES FED**,” “**mL FLUSH**”) can be cleared at any time, and without clearing the input settings, by doing the following:

- Start the pump **RUNNING**
- Press **▶ HOLD**
- Press **▶ CLEAR VOLUME**

The status line of the pump will then show **LOAD A SET** (Figures 5A-5B), or, if the pump set is already loaded, it will show **SET LOADED** (Figures 7A-7D).

Loading Pump Sets

The KANGAROO JOEY enteral feeding pump will indicate **LOAD A SET** in the screen's status line if a pump set is not installed. A blinking icon of a pump set will also appear in the upper left corner of the screen. Figure 5A shows the screen for continuous feeding mode and Figure 5B shows the screen for intermittent feeding mode (intermittent feeding mode not available in EZMODE).

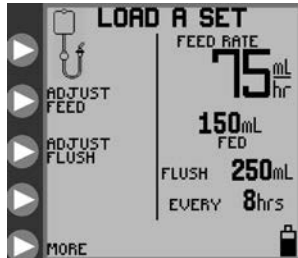


Figure 5A. **LOAD A SET** opening menu screen for Continuous Feeding mode (EZMODE not activated).

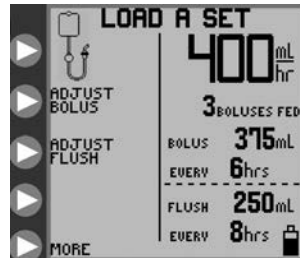


Figure 5B. **LOAD A SET** opening menu screen for Intermittent Feeding mode (EZMODE not activated).

To load a Pump Set, follow the steps below:

1. With the pump display facing you, open the blue transparent door that encloses the rotor and pump set loading area.
2. Load the pump set by holding the finger tab on the valve, then inserting the valve into the valve slot on the left. (Figure 6A)
3. Grasp the MISTIC retainer end (black ring retainer) and wrap the tubing counterclockwise around the rotor. (Figure 6B)
4. Carefully pull the MISTIC retainer end left and upwards to position it over the slot on the left, and then lower the retainer into the slot. Push down on the retainer then release to ensure proper engagement. (Figure 6B)
5. Push the valve's finger tab to the right to ensure proper seating.
6. Close the blue transparent door, checking to make sure the valve finger tab is captured by the slot in the blue door.

NOTE: To avoid nuisance alarms, make sure the pump set exterior is free from droplets of water or formula.

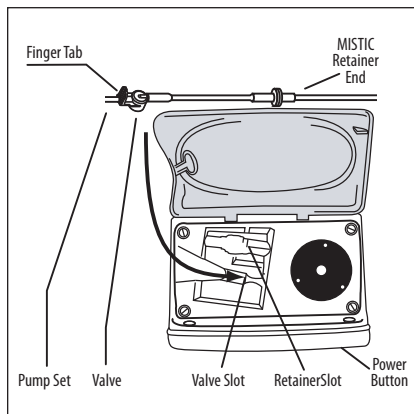


Figure 6A.

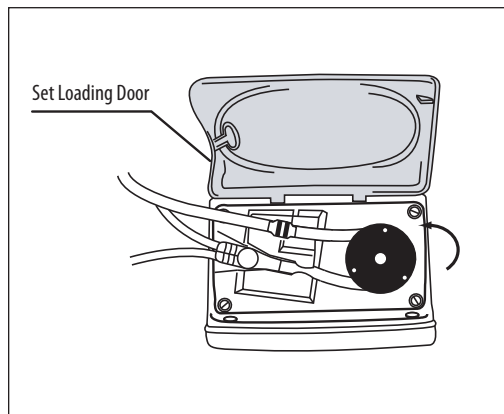


Figure 6B.

The display should read **SET LOADED** and will show one of the following opening menus, depending on the type of pump set detected, and whether continuous or intermittent feeding mode has been selected.

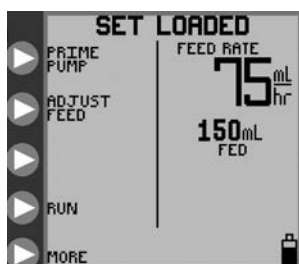


Figure 7A. Opening menu for Continuous Feed mode with a Feed-Only set.

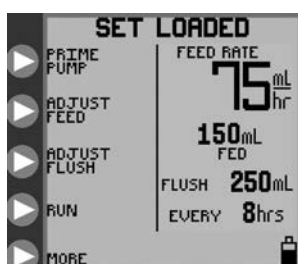


Figure 7B. Opening menu for Continuous Feed mode with a Feed & Flush set.

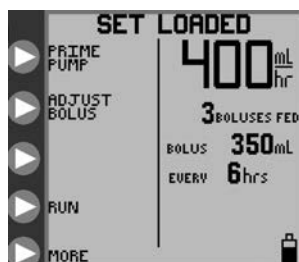


Figure 7C. Opening menu for Intermittent Feed mode with a Feed-Only set.

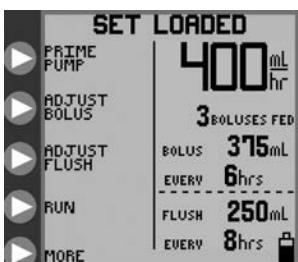


Figure 7D. Opening menu for Intermittent Feed mode with a Feed & Flush set.

Prime Pump

The KANGAROO JOEY enteral feeding pump may be primed automatically with a single button push, including the flushing line if a Feed & Flush Set is loaded. The pump can also be primed in a more interactive method using the hold-to-prime feature.

After a pump set has been loaded and the status line shows **SET LOADED**, press ► PRIME PUMP in the opening menu (Figures 7A-7D) to get one of the **PRIME PUMP** menus shown in Figures 8A and 8B.



Figure 8A. PRIME PUMP menu for Feed-Only set.

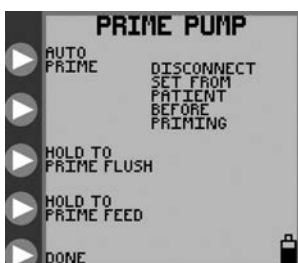


Figure 8B. PRIME PUMP menu for Feed & Flush set.

Auto Priming

The **AUTO PRIME** option will be available if the pump senses that the currently installed pump set was not previously primed, and that there is no fluid in the line near the rotor. If auto-priming is desired, press and release ► **AUTO PRIME** to automatically prime the line(s). For Feed & Flush Pump Sets, the auto prime feature will automatically prime both lines, starting with the flush line.

Press ► **STOP** to cancel **AUTO PRIME**.

When auto-priming is completed, the status line will show **AUTO PRIME COMPLETE** and will no longer show the **AUTO PRIME** option. Be sure that the line(s) are fully primed. If not, use the hold-to-prime option(s) to complete the priming, as described below.

Hold-to-Prime

The hold-to-prime options allow for precise interactive control of the priming process.

Feed-Only Pump Sets

For Feed-Only Pump Sets, the screen will appear as in Figure 8A. Press and hold ▶ **HOLD TO PRIME FEED** until the feed line has been primed down to the stepped end connector at the end of the pump set.

Feed & Flush Pump Sets

For Feed & Flush Pump Sets, the display will appear as in Figure 8B. First press and hold ▶ **HOLD TO PRIME FLUSH** to prime the flushing line, and then press and hold ▶ **HOLD TO PRIME FEED** to prime the feed line down to the stepped end connector at the end of the pump set.

If a Feed & Flush Pump Set is used, remember to first press ▶ **HOLD TO PRIME FLUSH** until the flushing fluid has reached the valve, and then press ▶ **HOLD TO PRIME FEED** until the feeding fluid has reached past the valve and down to the stepped end connector. If the feeding line is primed first, subsequent priming of the flushing line will force the air between the flush solution bag and valve into the main line, which already has been primed with enteral formula.

Re-priming after Bag Empty

A pump set bag that has been emptied will trigger the **FEED ERROR** screen. In this condition the pump set bag can be refilled to continue the feeding, but only after the pump set has been re-primed.

To re-prime the pump set, do the following:

- ***Disconnect the feeding line from the patient***
- Refill the bag
- Press ▶ **CONTINUE** to begin the pump **RUNNING**
- Press ▶ **HOLD**
- Press ▶ **ADJUST SETTINGS**
- Press ▶ **PRIME PUMP**
- Press ▶ **HOLD TO PRIME** to prime the line(s)

Pump sets should not be reused after 24 hours of initial usage.

Selecting Feed Mode

EZMODE Option

The **EZMODE** option is a limited, **CONTINUOUS MODE** only setting of KANGAROO JOEY enteral feeding pump. It feeds non-stop (no VTBD option) at a rate 0–400mL/hr as defined by the user until manually stopped. It has no **BOLUS**, **FLUSHING**, **RUN MODE SCREEN LOCK**, or **AUTORESUME** capability and displays no **HISTORY** information.

Turning on **EZMODE** will automatically force the unit out of the **INTERMITTENT (BOLUS FEED)** mode if set. Although the Continuous Mode feed VTBD will be set to 0 while **EZMODE** is enabled, the previous value of the **Feed VTBD** will be stored in the pump memory and recalled when “**EZMODE**” is deselected. The user can change the Feed Rate by normal means. All other user settings, including those not compatible with the **EZMODE (BOLUS VTBD, NUMBER OF BOLUSES, SUPER BOLUS, etc)**, that were set before the pump was put into the **EZMODE** will be ignored and invisible while in **EZMODE** but remain stored in the pump memory for when **EZMODE** is deselected. **EZMODE** essentially has no effect on **CLEAR SETTINGS**; pressing **CLEAR SETTINGS** while **EZMODE** is enabled will clear all Feed and Flush settings and totalizers as normal, not just those that apply to **EZMODE**. Selecting the **CLEAR SETTINGS** option on power up will not clear **Biotech Options** such as **EZMODE** or **LOCK SETTINGS**.

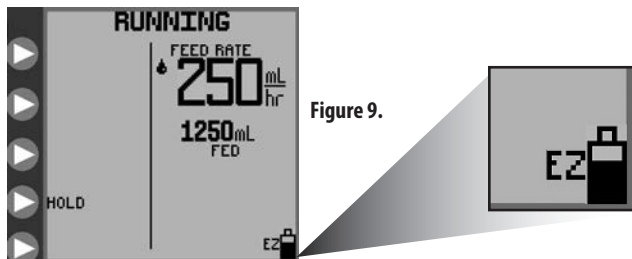
If the user selects the **ADJUST FEED** option from either the **LOAD A SET** or **SET LOADED** screens, control will pass directly to and from the Enter Feed Rate screen and bypass the **ADJUST FEED** screen since without the ability to adjust VTBD in **EZMODE**, the Adjust Feed screen is redundant.

Selecting EZMODE

EZMODE may be selected through the **Biotech Options** button which may be accessed on the Biotech screen (see page 22). The **EZMODE** setting will be stored in the machine pump memory and saved when the unit is shut off.

NOTE: If the user inserts a Feed/Flush set while the **EZMODE** is enabled, **EZMODE** will be cancelled and the unit will immediately revert back to the normal mode. If **EZMODE** is desired, the user must then re-enable **EZMODE** through the **Biotech Options** screen.

When enabled and not in **CERTIFICATION MODE**, a small **EZ** icon will be visible on the bottom of the screen near the battery icon. However, it will not appear in the **POWER DOWN, SYSTEM ERROR, or LOW BATTERY SCREENS**.



Selecting Continuous or Intermittent Feed Mode

The KANGAROO JOEY enteral feeding pump can be programmed to feed continuously or intermittently.

The continuous feeding mode will deliver the enteral nutrition at a steady rate, either until the programmed volume has been delivered or until the supply has been exhausted. The Intermittent feeding mode delivers boluses of enteral nutrition at programmed time intervals. The bolus volume and feed rate are also programmed.

To select continuous feed mode or intermittent feed mode, press ► **MORE** on the opening menu, shown in Figures 5A-5B or Figures 7A-7D, to access the **MORE OPTIONS** menu, Figure 10A.

The **MORE** option is available either before a pump set has been loaded (Figures 5A-5B) or after the pump set is loaded (Figures 7A-7D). See subsection “More Options” for information on the other options in the **MORE OPTIONS** menu.

Select ► **CONTINUOUS/INTERMITTENT** under the **MORE OPTIONS** menu, Figure 10A. Then press ► **CONTINUOUS MODE** or ► **INTERMITTENT MODE** from the **SELECT MODE** menu, Figure 10B. Press ► **DONE** to exit.



Figure 10A. **MORE OPTIONS** menu.

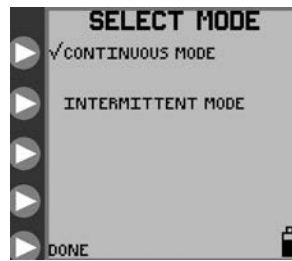


Figure 10B. **SELECT MODE** menu for continuous or intermittent mode selection.

Continuous Mode — Adjust Feed

Continuous Mode Feeding

For **CONTINUOUS** feeding mode, the **ADJUST FEED** option is available in the opening menus (Figure 7A for Feed-Only sets or Figure 7B for Feed & Flush sets). Select this option to program the feeding parameters from the **ADJUST FEED** screen, Figure 11A.

Press ► **FEED RATE** in Figure 11A to define the rate of delivery. Press the ► buttons in Figure 11B to program the rate from 1 to 400 in increments of 1 mL/hr. Press ► **ENTER** (top button) to exit the menu.

Press ► **FEED VTBD** in Figure 11A to define the Volume To Be Delivered. Press the ► buttons in Figure 11C to program the volume from 1 to 3000 mL in increments of 1 mL. Press ► **ENTER** (top button) to exit the menu. If the **FEED VTBD** is set to zero, the pump will run until the supply is exhausted.

NOTE: When a **FEED VTBD** is set, the remaining volume to be delivered (remaining VTBD) will be displayed next to the  icon on the lower right-hand portion of the screen (Figure 11A). If the **FEED VTBD** is reprogrammed during a feeding, from **HOLDING** mode, the pump will restart the feeding and deliver the entire volume of the new VTBD setting.

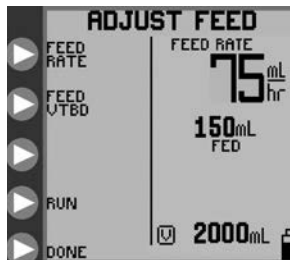


Figure 11A. **ADJUST FEED** menu.

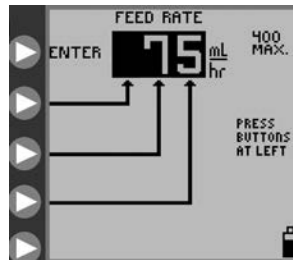


Figure 11B. Setting the Feed Rate.

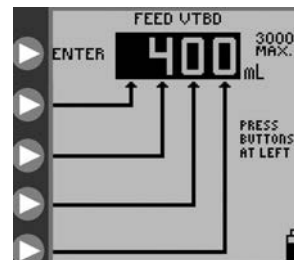


Figure 11C. Setting the Feed Volume to be Delivered.

Continuous Mode Flushing (Not Available in EZMODE)

For **CONTINUOUS** feeding mode with a Feed & Flush Set loaded, the opening menu will appear as shown in Figure 7B.

Press ► **ADJUST FLUSH** in Figure 7B to program the flushing parameters from the **ADJUST FLUSH** screen, shown in Figure 12A.

Press ► **FLUSH VOLUME** in Figure 12A to define the volume per flush occurrence. Press the ► buttons in Figure 12B to program the flush volume from 10 to 500 in increments of 1 mL. Press ► **ENTER** (top button) to exit the menu.

Press ► **FLUSH INTERVAL** in Figure 12A to define the time interval between starts of flushing. Press the ► buttons in Figure 12C to program the time interval from 1 to 24 hours in increments of 1 hour. Press ► **ENTER** (top button) to exit the menu.

The pump will automatically limit flushing settings which exceed pump capabilities to deliver.

CAUTION: The KANGAROO JOEY enteral feeding pump flushes at a rate of 1960 mL/hr (32.7 mL/minute). Use care when programming the flush volume so that it matches the patient's need.

NOTE: The pump will automatically flush an additional 25 mL of water after completing the programmed delivery of formula, as long as at least one flush had occurred during formula delivery.

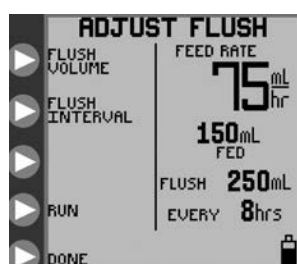


Figure 12A. **ADJUST FLUSH** menu, continuous mode.

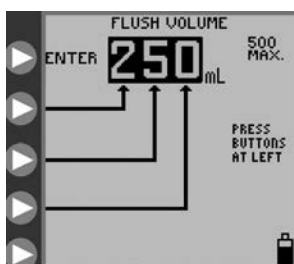


Figure 12B. Setting the Flush Volume.

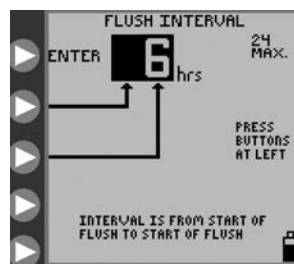


Figure 12C. Setting the Flush Time Interval.

Intermittent Mode — Adjust Bolus *(Not Available in EZMODE)*

Intermittent Mode Feeding

For **INTERMITTENT** feeding mode, the **ADJUST BOLUS** option is available in the opening menus (Figure 7C for a Feed-Only set or Figure 7D for a Feed & Flush set). Select this option to program the feeding parameters from the **ADJUST BOLUS** screen, Figure 13A.

Press ► **BOLUS RATE** in Figure 13A to define the rate of delivery.

Press the ► buttons in Figure 13B to program the delivery rate from 1 to 400 in increments of 1 mL/hr. Press ► **ENTER** (top button) to exit the menu.

Press ► **NUMBER OF BOLUSES** in Figure 13A to define the total number of boluses to be delivered.

Press the ► buttons in Figure 13C to program the number of boluses, up to a maximum of 99.

Press ► **ENTER** (top button) to exit the menu. The number of boluses can be set as zero, in which case the pump will run until the supply is exhausted.

Press ► **VOLUME PER BOLUS** in Figure 13A to define the Volume to be delivered in each bolus.

Press the ► buttons in Figure 13D to program the volume per bolus from 1 to 3000 mL in increments of 1 mL.

Press ► **ENTER** (top button) to exit the menu.

Press ► **BOLUS INTERVAL** in Figure 13A to define the time interval between starts of bolus deliveries.

Press the ► buttons in Figure 13E to program the time interval between starts of bolus deliveries from 1 to 24 hours in increments of 1 hour. Press ► **ENTER** (top button) to exit the menu.

The pump will automatically limit bolus settings which exceed pump delivery capabilities. For example, a bolus delivery volume of 200 mL cannot be made once per hour if a rate of 150 mL/hr is already programmed. In this case, the maximum volume allowed would be 150 mL.

NOTE: If the **NUMBER OF BOLUSES** is reprogrammed during a feeding (from HOLD mode), the pump will restart the bolus feeding and will deliver all the boluses as defined by the new setting.

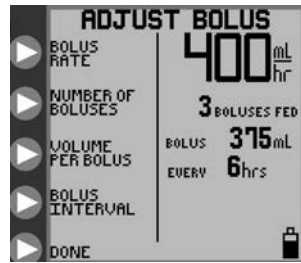


Figure 13A. *ADJUST BOLUS* menu.

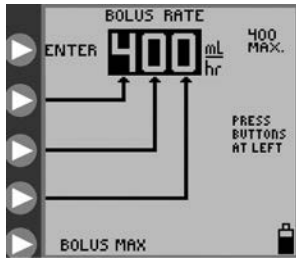


Figure 13B. Setting the Bolus Rate.

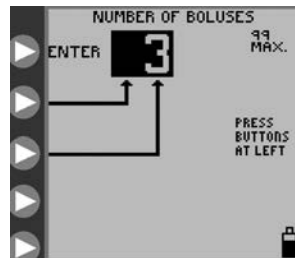


Figure 13C. Setting the Number of Boluses.

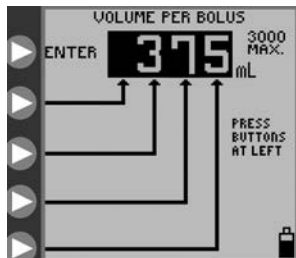


Figure 13D. Setting the volume per Bolus.

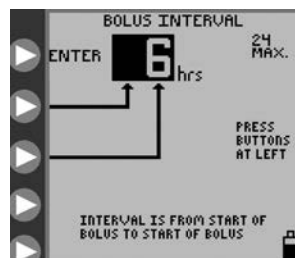


Figure 13E. Setting the time interval between starts of bolus.

Intermittent Mode Feeding – Bolus Max (Not Available in EZMODE)

The **BOLUS MAX** option can be used to deliver a bolus at a high rate, similar to gravity feeding.

Press ► **BOLUS MAX** in the **BOLUS RATE** menu, Figure 13B, to program the **BOLUS MAX** mode.

The feeding rate for **BOLUS MAX** is 999 mL/hr.

Intermittent Mode Flushing

For **INTERMITTENT** feeding mode with a Feed & Flush Set, the opening menu, shown in Figure 7D, will show the **ADJUST FLUSH** option. Press ► **ADJUST FLUSH** in Figure 7D to program the flushing parameters from the **ADJUST FLUSH** screen, Figure 14A.

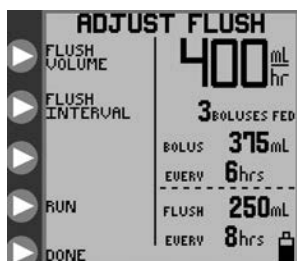


Figure 14A. *ADJUST FLUSH* menu, intermittent mode.

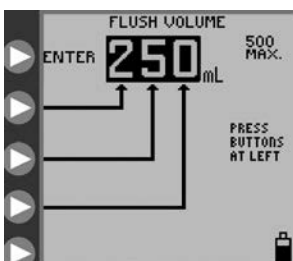


Figure 14B. Setting the Flush Volume.

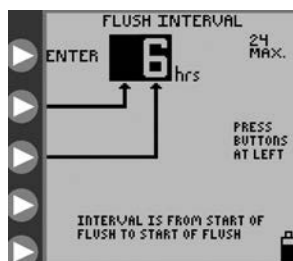


Figure 14C. Setting the Flush Time Interval.

Note: The nature of two intermittent processes, periodic bolus feeding and periodic flushing, is such that occasional conflicts can arise where each process needs to be running at the same time. The flushing process is assigned precedence over the feeding process for Feed & Flush pump sets. “Flushing precedence” means that a flush cycle will run to its end even if a bolus delivery is scheduled to begin. It also means that a flush cycle will interrupt a bolus feeding cycle that is already in progress. The feeding cycle will pick up where it was interrupted after the flushing cycle is complete. It is therefore possible that the net feeding volume is reduced from what may be intended, over a given time period.

Press ► **FLUSH VOLUME** in Figure 14A to define the volume per flush cycle. Press the ► buttons in Figure 14B to program the flush volume from 10 to 500 in increments of 1 mL. Press ► **ENTER** (top button) to exit the menu.

Press ► **FLUSH INTERVAL** in Figure 14A to define the time interval between starts of flushing. Press the ► buttons in Figure 14C to program the time interval from 1 to 24 hours in increments of 1 hour. Press ► **ENTER** to exit the menu.

The pump will automatically limit flushing settings which exceed pump capabilities to deliver.

CAUTION: The KANGAROO JOEY enteral feeding pump flushes at a rate of 1960 mL/hr (32.7 mL/minute). Use care when programming the flush volume so that it matches the patient’s need.

NOTE: The pump will automatically flush an additional 25 mL of water after completing the programmed delivery of formula, as long as at least one flush had occurred during formula delivery.

Run

The KANGAROO JOEY enteral feeding pump will only run when a pump set is properly loaded and the necessary feeding parameters have been programmed. For a Feed & Flush Set, the flushing parameters do not have to be set for the pump to begin operating. If flushing parameters are set as zeros, there will be no flushing.

After the pump has been programmed, press ► **RUN** to start operation. Figure 15A shows the **RUNNING** screen for continuous feeding with flushing. The status line will indicate **RUNNING**, and the droplet icon will move vertically on the screen. The green LED indicator will be illuminated to give a quick visual indication of positive status in a darkened room.

The **RUNNING** screen shows the feed rate, amount fed, flushing data if a Feed & Flush Pump Set is used, and the remaining volume to be delivered (remaining VTBD). The remaining VTBD is shown next to the  icon.

The **RUN** option can be selected from the following screens, if the proper parameters are programmed and the pump set is loaded:

- **SET LOADED** screens (Figures 7A-7D)
- **ADJUST FEED** screen, continuous mode (Figure 11A)
- **ADJUST FLUSH** screens (Figure 12A, 14A)
- **HOLDING** screens (Figure 18A)

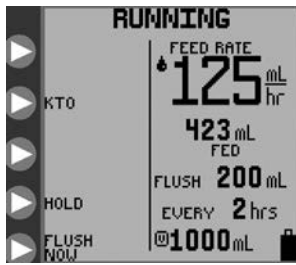


Figure 15A. **RUNNING** mode screen for continuous feed mode.

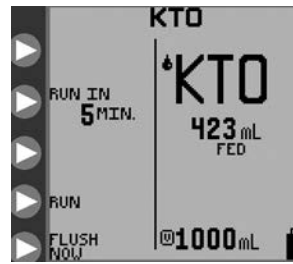


Figure 15B. **KTO**.

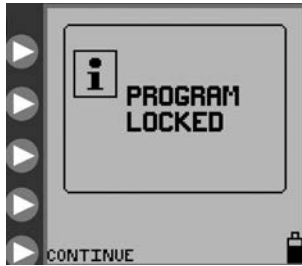


Figure 16. **Program Locked** screen, which indicates the pump is in **LOCK SETTINGS** mode.

KTO (Not Available in EZMODE)

The Keep Tube Open (**KTO**) function within the KANGAROO JOEY enteral feeding pump will help prevent a blockage of the feeding set by moving the feeding solution periodically within the tube. On regular intervals, calculated from the pump's presently programmed feed rate, a small and clinically insignificant portion of feeding solution is moved through the tube. The amount of delivered fluid is monitored, tracked, and calculated into the final feed volume totalizer amounts displayed to the user. The **KTO** feature can be activated via the **RUNNING** screen. To activate the **KTO** feature, press the input button to the left of the **KTO** icon, see Figure 15A, to immediately input a desired time in minutes for which the pump will remain in the "Keep Tube Open" mode before resuming the previously programmed feeding regimen. Each press of the input button will increment the **KTO** time by 5-minute increments, up to 30 minutes, see Figure 15B. After "30" is reached, each additional button press will increment in larger time steps, up to a maximum of 240 minutes. Another button push after 240 will cycle the **KTO** back to 5 minutes. No other input is needed to start the countdown, as the time immediately counts down after the incremental value is reached.

Lock Screen Feature

The KANGAROO JOEY enteral feeding pump can be set to **RUN** and then be locked out from unintended use. While the **LOCK SETTINGS** feature prevents changes only to the input parameters, the **LOCK SCREEN** feature will lock out any button presses, including **RUN** or **HOLD**, except power off.

Use **LOCK SCREEN** when the pump is running and there is a need to prevent unintended button activation, such as putting the pump into an unwanted **HOLD**. The **RUNNING** screen will show a padlock to indicate that no changes can be made without unlocking the screen.

To lock the screen, use the following procedure while the pump is in **RUNNING** mode:

- Press and hold the third ▶ button from the top (with padlock next to it) for at least 4 seconds, and then release it.

To unlock the screen, use the same procedure above.



Figure 17. **Padlock** indicates pump is in **LOCK SCREEN** mode.

Hold

Pump operation can be paused by pressing ► **HOLD** while it is **RUNNING**, such as in Figure 15A. The status line will indicate **HOLDING** and the yellow LED indicator will be lit up to give a quick visual indication of an informational status in a darkened room.

Note: the pump's alarm will sound if it has been left **HOLDING** for 10 minutes without further input.

There are five options available during **HOLDING**. See Figures 18A and 18B.

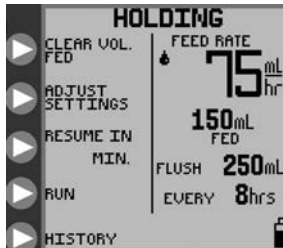


Figure 18A. **HOLDING** mode options, continuous feeding mode.

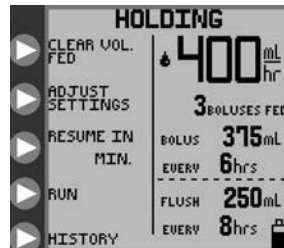


Figure 18B. **HOLDING** mode options, intermittent feeding mode.

Clear Volume Fed

Press ► **CLEAR VOLUME** to re-zero the output feed totals “**mL FED**,” “**BOLUSES FED**,” and “**mL FLUSH**.”

Adjust Settings

Press ► **ADJUST SETTINGS** to return to one of the opening menus shown in Figures 7A-7D, thus allowing any setting to be modified. If the pump set has been removed after going into **HOLD**, the opening menu will show **LOAD A SET**, as seen in Figures 5A-5B.

Resume In ___ Minutes (Not Available in EZMODE)

Press ► “**RESUME IN ___ MIN**” once to immediately place the KANGAROO ePump into a 30-minute resume running mode. Pressing the ► **RESUME IN ___ MIN** button again will cycle the “resume in” time back to zero. No other input is needed to start the countdown, as the time immediately counts down after the 30-minute value is reached.

Run

Press ► **RUN** to immediately restart pump operation. This option will not be available if the pump set is removed during **HOLD**.

History (Not Available in EZMODE)

Press ► **HISTORY** to access the **HISTORY** screen. Use this screen to review feeding and flushing history. See subsection “More Options” below for further information.

Flush Now (Not Available in EZMODE)

During the **RUNNING** mode, the pump can be diverted to immediately perform a flush (flush on demand) when a feed/flush set is loaded by pressing ▶ **FLUSH NOW** in the **RUNNING** menu, input a desired flush volume, then press ▶ **ENTER**. See Figure 15A. When ▶ **FLUSH NOW** is pressed, the screen will prompt for the volume to be immediately flushed, and will show the previously programmed flush volume as default but may be adjusted to the users desired volume. The screen will appear as the standard Flush input screen as shown in Figure 12B (or 14B). Setting the **FLUSH NOW** flushing volume is temporary and will not change the main/periodic flushing volume previously programmed. If ▶ **FLUSH NOW** is pressed by accident; the user may either press the cancel button or allow the screen to return to the **RUNNING** screen after 10 seconds, if there is no input for the flush volume.

If stopping a **FLUSH NOW** before the set volume has been delivered is desired, press ▶ **FLUSH NOW** and enter a volume of zero and press ▶ **ENTER**. The **FLUSH NOW** will stop immediately and the pump will return to the **RUNNING** mode.

More Options

Press ▶ **MORE** in one of the opening menus, Figures 5A-5B or Figures 7A-7D, to access the **MORE OPTIONS** screen, Figure 19.



Figure 19. **MORE OPTIONS** menu.

Buzzer

Press ▶ **BUZZER** in the **MORE OPTIONS** menu to access the **BUZZER** screen and increase or decrease the alarm buzzer volume. The alarm will be audible as the volume setting is changed. This sets the volume level for any warning or error that may occur with the pump. Critical errors of System Error and Pump Set Dislodged will always use the maximum volume setting.

History (Not Available in EZMODE)

Press ▶ **HISTORY** in the **MORE OPTIONS** menu to access the **HISTORY** screen. Press the ▶ buttons in Figure 20 to set the time history of interest. The totals of **FEED mL** and **FLUSH mL** will be shown for the requested history time.

WARNING: A maximum of 72 hours of past history can be retrieved, excluding data from the current hour. **NOTE:** The 72-hour history includes time when the pump is powered OFF.

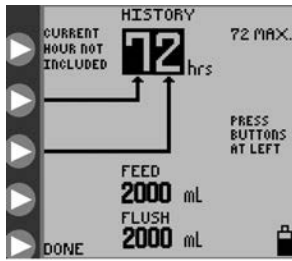


Figure 20. Feed and Flush totals for up to 72 hours of previous history, excluding data from the current hour.

Languages

Press ► **LANGUAGES** in the **MORE OPTIONS** menu to change the preferred language for the screen interface.

Continuous/Intermittent (Not Available in EZMODE)

Press ► **CONTINUOUS/INTERMITTENT** in the **MORE OPTIONS** menu to access the **SELECT MODE** menu, Figure 10B. Use this menu to select between continuous feeding mode and intermittent feeding mode. See subsection “Selecting Continuous or Intermittent Feed Mode” for more information.

Press ► **DONE** in the **MORE OPTIONS** menu to exit the menu.

BioTech Menu

The **BioTech** screen will show technical information about the pump, and has a lock feature to lock the Pump Settings against unauthorized changes.

Accessing the BioTech Screen

To get the **BioTech** screen, press the power button to start the pump, and press and hold the top ► button while the startup sequence (kangaroo icon “hops” across the screen) executes. You must be pressing the top ► button at the end of the sequence in order to access the BioTech menu. Figure 21 shows the **BioTech** screen.

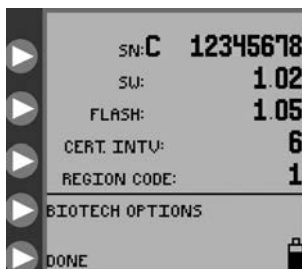


Figure 21. BioTech screen.

BioTech Screen Data

SN is the serial number of the pump.

SW shows the software version number in this pump.

FLASH shows the version number of the flash data installed in this pump.

CERT INTV indicates the number of times the pump has been powered on since the last re-certification. See Section VI for details of re-certifying the pump.

BioTech Options

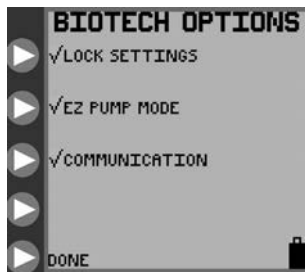


Figure 22. BioTech option screen, with Lock Setting, EZ PUMP MODE, and Communications features activated.

LOCK SETTINGS — Program Locked

To “lock” the settings against unauthorized changes, press ► **LOCK SETTINGS** to get the check mark, as shown in Figure 22. The settings can only be changed again by pressing ► **LOCK SETTINGS** to remove the check mark. If the settings are locked and a change is attempted, the screen will indicate **PROGRAM LOCKED**, and will not allow access to the parameters, Figure 16.

The pump can be **PRIMED** or set to **RUN, HOLD**, etc. when settings are locked.

EZ PUMP MODE

Press ► **EZ PUMP MODE** to activate the **EZ PUMP MODE** feeding option. A check mark will appear next to the ► **EZ PUMP MODE** button to indicate that the feature is active. Pressing the ► **EZ PUMP MODE** button again will remove the check mark indicating that the feature is off. If the **EZ PUMP MODE** feature is turned on, the **EZ PUMP MODE** icon will appear in the lower right corner of the LCD next to the battery icon (see Figure 9). See page 13 for **EZ PUMP MODE** details.

COMMUNICATION

Press ► **COMMUNICATION** to activate the communication feature. A check mark will appear next to the ► **COMMUNICATION** button to indicate that the feature is active. Pressing the ► **COMMUNICATION** button again will remove the check mark indicating that the feature is off. If the **COMMUNICATION** feature is turned on, the **COMMUNICATION** icon will appear in the lower right corner of the LCD next to the battery icon (see Figure 23).

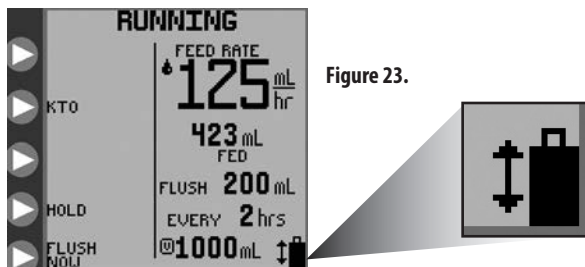


Figure 23.

Turning the **COMMUNICATION** feature on will initiate data transfer of various pump settings, status, errors, etc. through the serial I/O port. If feature is desired, please contact technical support for additional information.

NOTE: If **EZMODE** and the **COMMUNICATION** feature are both activated the icons for both features will alternate.

Press ► **DONE** to exit the **BioTech** menu. To re-enter this menu screen, power down the pump and then power it up again and hold the top ► button, as described above.

Section VI – Re-Certification of Performance

System Performance Re-Certification

A series of self-diagnostic checks can be run to re-certify pump performance. It is recommended that this re-certification procedure be run at least once per year, or any time the pump is suspected of having improper performance. See Section XIII – Service Part Numbers for ordering new Re-Certification Pump Sets.

Load the Re-Certification Pump Set. The pump will automatically recognize the Re-Certification Pump Set and give brief instructions to initiate the self-diagnostic procedure. Follow the instructions and review the pass/fail information at the end of the test.

Certifying the Accuracy of Pump Flow Rate

Use the following procedure to check the flow rate accuracy:

- Perform test at room temperature $22^{\circ}\text{C} \pm 2^{\circ}\text{C}$ ($72^{\circ}\text{F} \pm 3^{\circ}\text{F}$) with a new pump set.
- Fill a new Feed-Only pump set bag with water to the 500 mL mark.
- Load the pump set.
- Suspend the pump set bag so that the top of the water column is 6 inches above the pump.
- Make sure pump is plugged into A/C power (do not run test with battery power).
- Program a Continuous Mode feed rate (see below for suggested example rates).
- After running the programmed continuous mode feed rate for 15 minutes, begin collecting water in a calibrated measuring container, such as a large-capacity graduated cylinder.

NOTE: The amount of water collected in 30 minutes will be half of the value programmed for the hourly flow rate, within $\pm 7\%$, or 0.5 mL, whichever is larger. Since feeding accuracy of the KANGAROO JOEY Pump is based upon formula and not water, a 4% accuracy shift should be applied when testing the KANGAROO JOEY using water. (Water will appear to overdeliver by 4%.)

Rate Set	<u>Amount Expected in 30 Minutes</u>
125 mL/hr	60.63 mL - 69.38 mL

If the amount collected is outside the range, load a new pump set and re-run the test procedure to confirm results.

Section VII — Cleaning

Cleaning should be performed as needed. It may also be desirable to define cleaning intervals based on knowledge of the environment in which the pump is used. Only personnel trained in the cleaning of medical devices should perform cleaning.

CAUTION: Do not immerse pump or power cord in water or other cleaning solution; clean using a damp cloth or sponge. Failure to follow the cleaning procedures described herein could result in hazards to users. As with any AC powered electrical device, care must be taken to prevent liquid from entering the pump to avoid electrical shock hazard, fire hazard, or damage to electrical components.

If any of the following events occur, DO NOT USE the pump until it has been properly cleaned and serviced by personnel trained in servicing KANGAROO JOEY enteral feeding pumps:

- wetting of the pump's power cord or leakage into the pump interior during cleaning.

General Cleaning Directions

Cleaning of KANGAROO JOEY enteral feeding pumps must be performed as follows:

CAUTION: Disconnect pump from AC power source before cleaning. After cleaning, do not connect to AC power source until pump and power cord are thoroughly dry.

- A mild detergent should be used for general cleaning. If necessary, the pump may be cleaned with a 10:1 water and hypochlorite mixture, however, repeated cleaning with this solution can damage the plastic pump case. Isopropyl alcohol, applied with a damp cotton swab, may be used for cleaning difficult-to-reach areas, however, it should be used sparingly because repeated cleaning may damage the case.
- DO NOT USE strong cleaners such as Spray-Nine™, PhisoHex™, Hibiclens™, or Vesta-Syde™ because damage to the pump case housing can result.

Directions for Cleaning Pump Housing

- Refer to General Cleaning Directions before starting.
- Clean outside surface with a damp cloth or sponge.

Directions for Cleaning Pump Power Cord

- Refer to General Cleaning Directions before starting.
- Unless soiling is observed, the power cord should not be cleaned.
- If cleaning of the power cord is necessary, unplug from outlet and wipe the exterior surfaces of the wall plug with a cloth dampened with isopropyl alcohol.

CAUTION: Avoid exposing power cord to excess moisture, as this can lead to an electrical shock or fire hazard.

Directions for Cleaning Rotor Assembly

- Refer to General Cleaning Directions before starting.
- Open the blue door enclosing the pump set loading area.
- Loosen rotor set screw with 5/64" (2 mm) allen wrench and gently pull rotor off shaft. After removing rotor, avoid getting any moisture in the rotor shaft opening.
- Clean rollers thoroughly with warm soapy water, or isopropyl alcohol if necessary.
- Be sure all parts of rotor are completely dry before putting it back onto shaft.
- To replace rotor, align set screw on hub of rotor with the flattened section of the output shaft.
- Push rotor into place and tighten set screw (Do not over tighten).

Preventative Maintenance

This pump must be periodically re-certified to assure proper functioning and safety. The recommended service interval is at least once per year. Re-certification may be done at the user's Biomedical Engineering Department, an outside service, or by Tyco Healthcare Group LP Factory Service. To arrange for Tyco Healthcare Group LP Factory Service in the US, call 1-800-448-0190. In Canada, call 1-877-664-TYCO(8926). Outside of the US and Canada, please contact your local Customer Service for more information.

If a pump malfunctions, please contact your Tyco Healthcare Group LP Representative or call Customer Service for instruction.

Section VIII — Battery Replacement

See Figure 24 and do the following to replace the Battery Pack:

- Power down the unit.
- Loosen the two battery door screws on the back of the pump.
- Remove battery door and disconnect wire harness making sure not to damage the watertight seal on the pump housing. A small straight-bladed screw driver may be needed to disconnect the connector tab.
- Slide Battery Pack out of compartment.
- Slide a new Battery Pack into compartment with wire harness extending out.
- Push connector in until properly latched.
- Tuck wires into slot between connector and battery to insure wires are not pinched.
- Place battery door over battery opening. Make sure the rubber periphery seal on the pump housing fits into the groove in the battery door before closing all the way. Avoid pinching the seal to retain a water-tight seal.

Note: Replacement Battery Packs are available from Tyco Healthcare Group LP (See Section XIII - Service Part Numbers).

To assure the safe and reliable operation of this pumping system, do not attempt to operate without an approved battery pack installed in the pump.

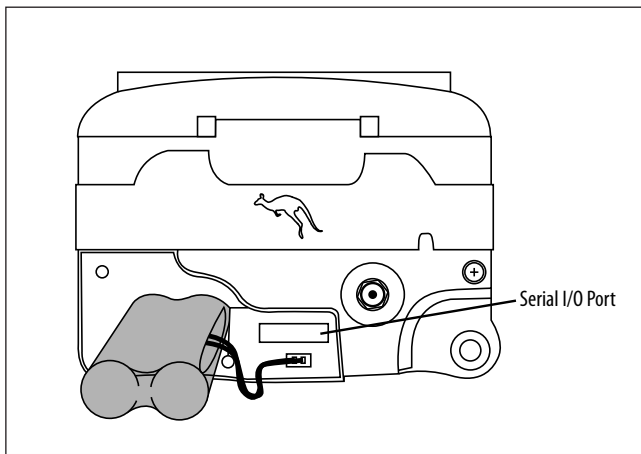


Figure 24. Installation of Battery Pack.

WARNING: USE OF A BATTERY PACK NOT SUPPLIED BY TYCO HEALTHCARE GROUP LP CAN BE DANGEROUS AND VOIDS ALL WARRANTIES AND PERFORMANCE SPECIFICATIONS.

The battery will charge continuously whenever the pump is plugged into a wall outlet. 6 hours of charging is required to fully recharge the Battery Pack.

Section IX — Error/Warning/Informational Screens and Troubleshooting

For operational errors, the KANGAROO JOEY enteral feeding pump display will show the error indicator icon, with specific information regarding the error condition, and will sound the alarm.

The following conditions will trigger error conditions and will activate audible and visible alarms:

- Feed or Flush containers are empty
- Feed or Flush tube becomes occluded between bag and pump
- Tube becomes occluded between pump and patient
- Battery low (alarm beeps continuously, about 15 minutes before shut-off)
- Unit is left in HOLD mode longer than 10 minutes without input
- Pump set tubing is improperly loaded around the rotor
- System errors, see below
- Feeding complete
- The MISTIC connector is removed during **AUTOPRIMING** or **RUNNING**

The Error, Warning, and Information Screens are described below:

System Error (Fixed Audible Volume)

The system error screen is the most general form of error, Figure 25. The only way to exit from a System Error is to power down. No **CONTINUE** option is allowed because of the severity of the error. An error number is also displayed on the screen, for reference purposes. This number should be reported when calling the Customer Service Support Line.

Error #	Related Sub-system
0	Internal timer stopped.
1	Flash Chip missing OR version incompatible.
2	Too many graphic screens in memory.
4	Never got a ADC ISR for motor current.
5	Never got a ADC ISR for battery level.
6	Never got a ADC ISR for battery temperature.
7	Never got a ADC ISR for Ultrasonic Upstream Occlusion or Bag-Empty checks.
8	Never got a ADC ISR for Ultrasonic during Downstream Occlusion.
9	RS232 Communications Transmission Error.
10	Flash Write Error.
11	Flash Read Error.
12	General Stopcock Time Out.
13	Time Out for Buzzer Test.
16	Flash Screen Read Error.
19	Flash Languages Read Error.
20	Could not find Stop Cock Flush Position during prime routine.
21	Could not find Stop Cock Feed Position during prime routine.
22	Motor Error during Tubing AutoLoad.
23	Motor Failsafe Time Out Error. Possible damaged gearbox encoder or flex cable.
25	Display Lockup Time Out Error.
33	Motor Control Failure.

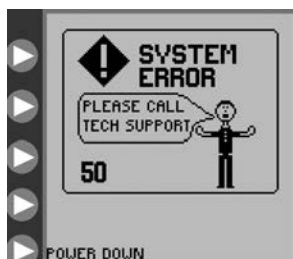


Figure 25. General System Error screen. See Customer Service section.

Turn the power off and back on to try to clear the error. If the error cannot be resolved in a timely manner, press **POWER** to stop operation of the pump and put a different pump into service.

Hold Error (Adjustable Audible Volume)

The **HOLD ERROR** screen, Figure 26, will appear if the pump has been inactive, without input, for more than 10 minutes. See subsection "Hold" for description of **HOLDING** mode.

Press **▶ CONTINUE** to return to the previous screen. Where settings can be adjusted, the pump can be set to run immediately, or the pump can be set to run in a specified number of minutes. See Figures 18A-18B to see the options on the **HOLDING** menu screen.

If the error cannot be resolved, press **POWER** to stop operation of the pump and put a different pump into service.

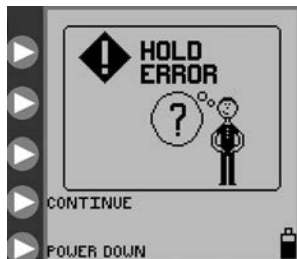


Figure 26. Hold Error screen.

Rotor Error (Adjustable Audible Volume)

The **ROTOR ERROR** screen appears during **RUNNING** or **PRIMING**, when the pump has detected an unusual operating condition for the rotor. See Figure 27. The **ROTOR ERROR** generally results from a problem with the pump set tubing around the rotor.

Check that the pump set is not damaged, and re-load the tubing around the rotor as described in subsection "Loading Pump Sets". Press **▶ CONTINUE** to restart.

If the error cannot be resolved, press **POWER** to stop operation of the pump and put a different pump into service.

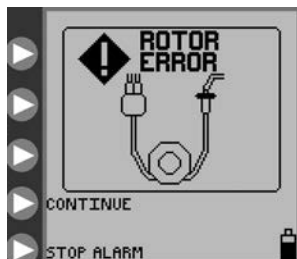


Figure 27. Rotor Error screen.
Re-load the set tubing and press CONTINUE.

Feed Error (Adjustable Audible Volume)

The **FEED ERROR** screen appears when the enteral formula is no longer being delivered because the bag is empty or because of a clog between the pump and the bag. Check the feed line to find the occlusion causing the blockage. If the occlusion cannot be cleared, load a new pump set, prime it, and press **▶ CONTINUE** to restart the feeding, Figure 28.

If the error still cannot be resolved, press **POWER** to stop operation of the pump and put a different pump into service.



Figure 28. Feed Error screen.

Flush Error (Adjustable Audible Volume)

The **FLUSH ERROR** screen appears when the flushing solution is no longer being delivered because the flush bag is empty or because of a clog between the pump and flush bag. Check the flush line to find the occlusion causing the blockage. If the occlusion cannot be cleared, load a new pump set, prime it, and press ► **CONTINUE** to restart the feeding, Figure 29.

If the error still cannot be resolved, press ⏻ **POWER** to stop operation of the pump and put a different pump into service.



Figure 29. Flush Error screen.

Flow Error (Adjustable Audible Volume)

The **FLOW ERROR** screen appears when either the feeding or the flushing solution is no longer being delivered because of a clog between the pump and the patient. Check the line to find the occlusion causing the blockage. If the error cannot be resolved, check the valve pocket in the pump set loading area for dampness or dirt, which may be a cause for a false error. Clean and dry the valve pocket. If the error still cannot be resolved, load a new pump set, prime it, and press ► **CONTINUE** to restart the feeding, Figure 30.

If the error still cannot be resolved, press ⏻ **POWER** to stop operation of the pump and put a different pump into service.

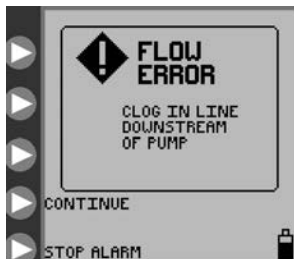


Figure 30. Flow Error screen.

Pump Set Dislodged Error (Fixed Audible Volume)

The **PUMP SET DISLODGED** screen will appear if the black ring retainer (MISTIC) is not properly loaded in the MISTIC pocket in the pump set loading area. Check and correct the positioning of the MISTIC retainer if possible. If the error cannot be resolved, load a new pump set, prime it, and press ► **CONTINUE** to restart the feeding, Figure 31.

If the error cannot be resolved, press ⏻ **POWER** to stop operation of the pump and put a different pump into service.

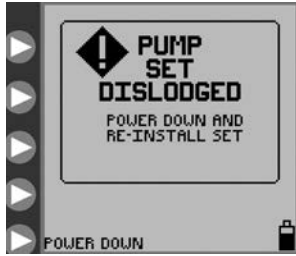


Figure 31. Pump Set Dislodged Error screen.

Battery Low (Fixed Audible Volume)

The **BATTERY LOW** screen appears and the alarm beeps continuously when the battery needs to be recharged. There is approximately 15 minutes of battery life remaining when this screen appears, Figure 32.

Plug the power cord in to begin recharging. The pump will automatically return to the screen that was active prior to the error. The battery will charge continuously whenever the pump is plugged into a wall outlet. 6 hours of charging is required to fully recharge the battery pack.

If this screen appears while the A/C Adaptor is plugged in to the pump, check to make sure the A/C Adaptor plug is pushed all the way in so it is flush with the back of the pump.

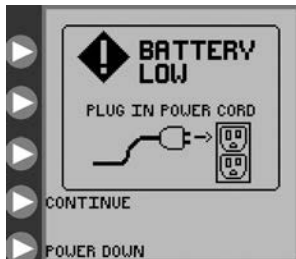


Figure 32. Battery Low error screen. Indicates that the battery must be recharged immediately.

Feeding Complete (Adjustable Audible Volume)

The **FEEDING COMPLETE** information screen appears after completion of the programmed feeding, Figure 33. Press ► **Power Down** to turn off the pump. Press ► **CONTINUE** to return to the **SET LOADED** opening menu, Figures 7A-7D.



Figure 33. Feeding Complete notification screen.

Set Use >24 Hours Warning

The pump set usage warning indicator will blink on the **RUNNING** screen if a pump set has been used for 24 or more hours (hours actually running). It is recommended to replace pump sets after this length of usage. This icon is only an informational message and does not require action.

Figure 34 shows an example of the **RUNNING** screen, where a Feed & Flush Set has been in use for more than 24 hours. The informational warning indicator shows up in the upper left on the screen.

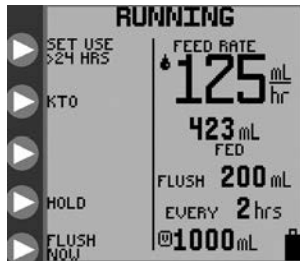


Figure 34. Running screen with the > 24 HRS of Pump Set Usage Indicator in upper left of the screen.

LED Array

The pump status LED array on the upper right of the pump gives a quick visual indication of the pump status, especially in darkened rooms.

A green light status indicates normal pump operation.

A yellow light status indicates an informational or warning situation for a low battery condition, the pump in **HOLDING** mode, or one of the following errors: **HOLD ERROR**, **FEED ERROR**, **FLOW ERROR**, and **FLUSH ERROR**.

A red light status indicates a critical pump error. The screen will show one of the following error messages: **SYSTEM ERROR**, **PUMP SET DISLODGED**, or **ROTOR ERROR**.

Section X — Specifications and Symbols

Specifications

UL Listing



Medical Electrical Equipment

KANGAROO JOEY™ Enteral Feeding Pump

(1) Classified with respect to electrical shock, fire, and mechanical hazards in accordance with UL60601-1.

(2) Classified with respect to electrical shock, fire, mechanical and other specified hazards in accordance with CAN/CSA C22.2 No. 601.1

Type Infusion Device

Volumetric

Pumping Mechanism

Rotary Peristaltic

Pump Sets

All sets operating on the KANGAROO ePump will also operate on the KANGAROO JOEY.

Feeding Formula Delivery Rate

1-400 mL/hr in 1 mL increments

Feeding Formula VTBD

1-3000 mL in 1 mL increments

Bolus Volume

1-3000 mL in 1 mL increments

Number of Boluses

1-99

Bolus Interval

1-24 hours in 1-hour increments

Flushing Solution Dose Range

10-500 mL in 1 mL increments

Flushing Solution Interval Range

1-24 hr in 1 hr increments

Accuracy

7% or 0.5 mL/hr, whichever is larger, with top of the fluid column at 15.24 cm (6") \pm 0.76 cm (0.3") above the top of the closed pump door, at a room temperature of 22°C \pm 2°C (72°F \pm 3°F), using a new ePump feeding set for no longer than the recommended 24 hours of maximum usage. Confidence intervals for accuracy are based upon those included in the ANSI/AAMI ID26-1992 American National Standard for Infusion Devices. Reported accuracy is based upon the time-based accuracy calculation in this standard, as applicable for enteral feeding. Since feeding accuracy of the KANGAROO JOEY pump is based upon formula and not water, a 4% accuracy shift should be applied when testing the KANGAROO JOEY using water. (Water will appear to overdeliver by 4%.)

Occlusion Pressure

15 psi (103 kPa) Nominal

Dimensions

Height: 10.4 cm (4.1") Width: 13 cm (5.1") Depth: 9.1 cm (3.6")

Weight

0.77 kg (1.7 lbs), 1 kg (2.3 lbs) with pole clamp

Material

Soft-Touch Coating: Latex-Free Thermoplastic Urethane

Housing: Polyester/Polycarbonate blend

Power

Use AC adapter for wall outlet usage. Pump operates on 5V DC, 2.4 A. Use only KANGAROO JOEY power cord.

Nominal Voltage: 3.7V DC

Max Current: 1800 μ A

Battery

New, fully charged Lithium Ion Battery Pack delivers \geq 18 hrs at 125 mL/hr feed rate. Approximately 15 minutes prior to complete battery discharge, a low battery alarm will occur (see subsection "Battery Low" in Section IX). When complete discharge occurs, the pump will automatically turn itself off.

The battery will charge continuously whenever the pump is plugged into a wall outlet. 6 hours of charging is required to fully recharge the battery pack.

Alarms

- System Error
- Flow Error
- Pump Set Dislodged Error
- Hold Error
- Rotor Error
- Feed Error
- Flush Error
- Battery Low

Alarm Volume

Minimum of 65 dBA at 1 meter in maximum volume orientation

Operating Temperature

10° - 40° C (50° - 104° F) 75% R.H. non-condensing

Storage Temperature

0° - 50° C (32° - 122° F) 95% R.H. non-condensing

Type of Protection Against Electrical Shock

Class II, Internally-powered Equipment

Degree of Protection Against Electrical Shock

Type BF

Mode of Operation







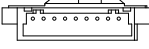




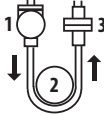













Continuous or programmed intermittent operation

Degree of Protection Against Ingress of Fluids

Splash-proof IPX4

Symbols on Pump and Accessories

The following symbols are found on the pump or on the accessories, such as the A/C adapter.

	Refer to Accompanying Documents		Buttons for Selecting Screen Prompts		VDE in Europe
See Accompanying Documents			Power Source 5 VDC 2.4 A		UL in USA and Canada
	Type BF Protection (Degree of protection against electrical shock - there is no conductive connection to the patient)		Serial I/O Communication Port (Certification and Programming)		Japanese Certification
	Manufacturing Date Code		Caution: For indoor use only		
SN	Serial Number		Functional Ground		Set Loading Diagram
REF	Reorder number for the device located on the carton label		Do not use KANGAROO JOEY Feeding Sets for greater than 24 hours		
	Alternating Current		Do not use if unit package is open or damaged		Maximum operating pressure 103 kPa
	Class II Equipment (degree of protection against electrical shock), Double Insulated		Flushing Solution		
	Direct Current (DC)		Feeding Formula		Assure that the white cap and red stepped connector are securely tightened
IPX4	Splash Proof (Degree of protection against ingress of fluids)		See KANGAROO JOEY Manual for Feeding Set loading instructions		
	CE Mark – European Community Certification		European Union's Waste Electrical and Electric Equipment (WEEE) Directive in accordance with European Standard EN 50419		
0123					
	Power Button				

Section XI — Customer Service

The circuitry of the KANGAROO JOEY enteral feeding pump is not customer serviceable. In particular, electronic assembly rework by non-authorized KANGAROO JOEY enteral feeding pump technicians will likely affect accuracy. Certain replacement items, as listed in Section XII – Service Part Numbers, are available from the service centers listed below.

All service personnel must be properly trained and qualified with operation of the KANGAROO JOEY enteral feeding pump. Improper service may impair operation of the pump.

Return for Repair

1. Call Customer Service for an Authorized Return Number and shipping instructions, using the appropriate phone number below.
2. Pack the instrument carefully and ship the insured parcel to the following locations (or your local service center):

United States

Tyco Healthcare Group LP
98.6 Faichney Drive
Watertown, NY 13601
1-800-448-0190 or (315) 788-5246

Canada

Tyco Healthcare Canada
7300 Trans Canadian Highway
Pointe-Claire, QC H9R 1C7
1-877-664-8926 or (514) 698-1220

U.K. Service Center (Outside of U.S. and Canada)

Tyco Healthcare Group LP
20 Garryduff Road
Ballymoney, BT53 7AP
+44-28276-61719

Section XII — Maintenance

For general maintenance issues not discussed below, contact Customer Service (Section XI).

WARNING: Do not open the main housing, as there are no user-serviceable parts inside. Opening of device may affect function of device and voids the warranty.

The following maintenance items/parts can be replaced by the customer on the KANGAROO JOEY enteral feeding pump. See Section XIII for Service Part Numbers and Section XI for contacting Customer Service.

Side Door enclosing Pump Set Loading area

To replace the top door, see Figure 35 and do the following:

1. Place left door hinge onto the left hinge pin.
2. Carefully spread the door hinges apart.
3. Place the right door hinge onto the right hinge pin.

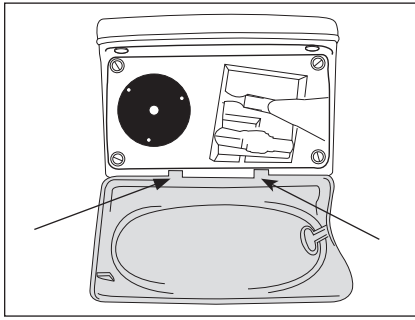


Figure 35. Blue Door Replacement.

Battery Pack

See Section VIII for full instructions on replacing Battery Pack. During long-term non-usage or storage (greater than 1 year) of the pump, battery discharge and deactivation may tend to occur. It is recommended that the battery be disconnected during this time. The battery may need to be charged and discharged several times to restore optimal capacity.

Battery Door

To replace Battery Door, see Figure 36 and do the following:

1. Place Battery Door over battery opening. Make sure the rubber periphery seal on the pump fits into the groove in the Battery Door before closing all the way. Avoid pinching the seal to retain a water-tight seal.
2. Place long and short screws in their proper holes.

Power Cord

See Section IV for initial setup, including Power Cord attachment.

Pole Clamp

See Section IV for initial setup, including attachment of the Pole Clamp to the pump.

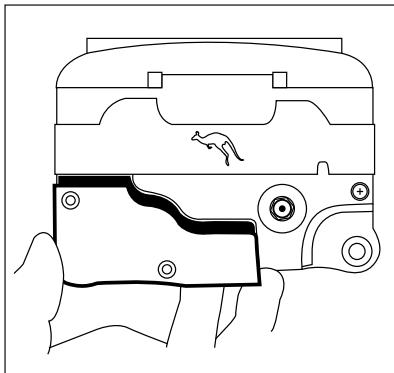


Figure 36. Battery Door Replacement.

Section XIII – Service Part Numbers

To place an order for parts, or if technical assistance is required, call customer service.

The KANGAROO JOEY enteral feeding pump contains a limited number of serviceable parts, Figure 37. User maintenance is to be performed only by appropriately qualified technical personnel.

Visit our web site at: www.tycohealthcare.com

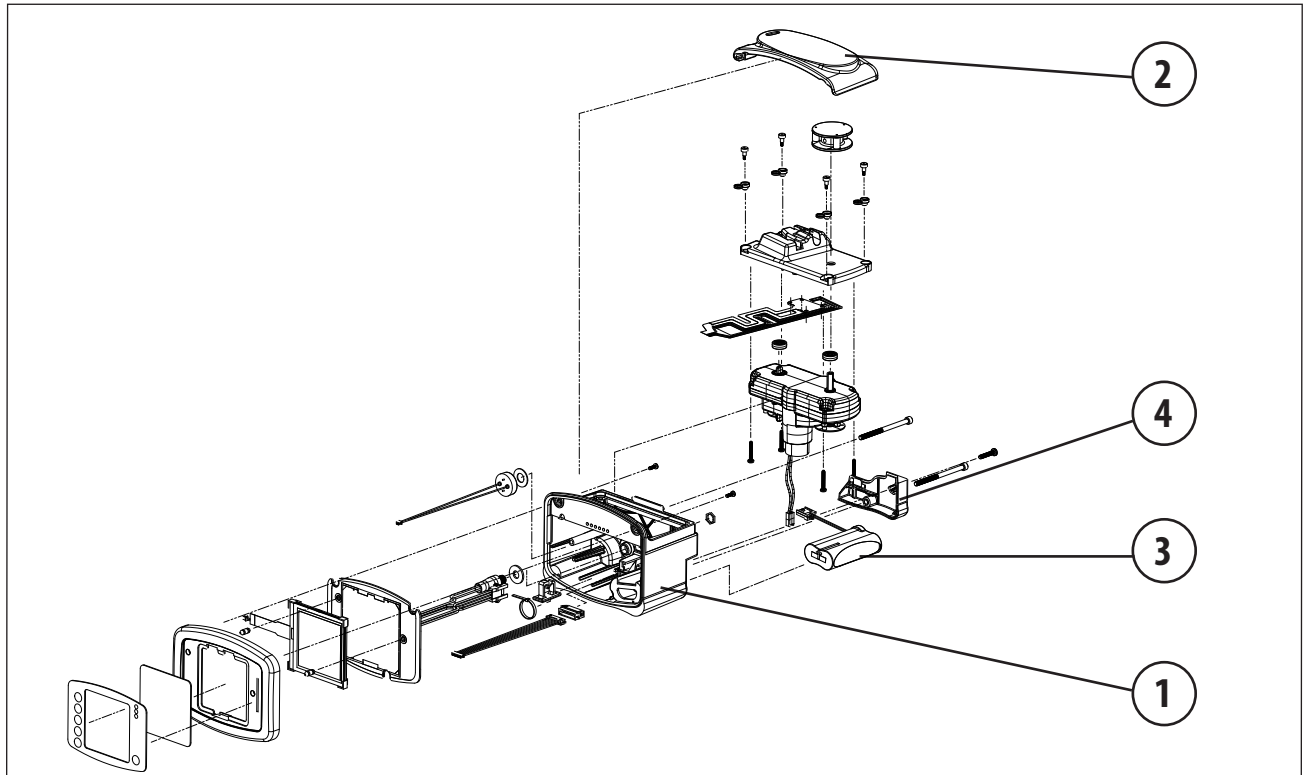


Figure 37. User Serviceable Parts.

(1) KANGAROO JOEY Enteral Feeding Pump	383400
(2) Main Door (Blue transparent door)	F31931WT
(3) Battery Pack	F010506WT
(4) Battery Door	F31929WT
Power Cord (with A/C Adapter)	383491
Pole Clamp	383493
Electrical Plugs (Set of 4)	382493

ACCESSORY ITEMS

Cord Extension Accessory (US)	382495
Cord Extension Accessory (Europe)	382496
Cord Extension Accessory (Australia)	382497
Cord Extension Accessory (UK)	382498
Serial Cable (COMMUNICATION Feature)	382500
Flexible Arm Pole Clamp	383494
Re-Certification Pump Set	776150
Technical Manual (Communications Mode)	F182484WT
Backpack	770022
Backpack, Small	770024

Section XVI – Warranty

LIMITED WARRANTY: Kendall, a Tyco Healthcare Group LP company, warrants to the original purchaser (“Customer”) that this product will be free of defects in materials and workmanship, under normal use, for one (1) year from the date of original purchase from Tyco Healthcare Group LP or its authorized distributor. If this product does not operate as warranted above during the applicable warranty period, Tyco Healthcare Group LP may, at its option and expense, replace the defective part or product with a comparable part or product, repair the defective part or product, or, if neither replacement nor repair is reasonably available, refund to Customer the purchase price for the defective part or product. Dated proof of original purchase will be required. Tyco Healthcare Group LP does not assume any liability for loss arising from unauthorized repair, misuse, neglect, or accident. Removal, defacement, or alteration of serial lot number voids warranty. Tyco Healthcare Group LP disclaims all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose or application other than as expressly set forth in the product labeling.

Section XV – Electromagnetic Conformity Declaration

The KANGAROO JOEY enteral feeding pump has been built and tested according to UL60601-1, E189131 CSA-C22.2 No.601.1-M90, and EN60601-1-2 Standards.

The KANGAROO JOEY enteral feeding pump is intended for use in the electromagnetic environment specified below. The user of the pump should assure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment - Guidance
RF emissions (CISPR 11)	Group 1	The KANGAROO JOEY enteral feeding pump 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)	Class B	The KANGAROO JOEY enteral feeding pump is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions (IEC 61000-3-2)	Class A	
Voltage fluctuations/ flicker emissions (IEC 61000-3-3)	Complies	
Radiated Disturbance Immunity (EN60601-1-2 / IEC 61000-4-3:2002)	Complies	
Conducted Disturbance Immunity (EN60601-1-2 / IEC 61000-4-6:2001)	Complies	
Power Frequency Magnetic Field Immunity (EN60601-1-2 / IEC 61000-4-8:2001)	Complies	
Voltage dips and sags Immunity (EN60601-1-2 / IEC 61000-4-11:2001)	Complies	
Electrical Fast Transient / Bursts Immunity (EN60601-1-2 / IEC 61000-4-4:2001)	Complies	
Electrostatic Discharge Immunity (EN60601-1-2 / IEC 61000-4-2:2001)	Complies	
Surge Immunity (EN60601-1-2 / IEC 61000-4-5:2001)	Complies	

Section XVI – AccuSystem√

The KANGAROO JOEY enteral feeding pump is a reliable and accurate enteral feeding device. The reason for the accuracy of the KANGAROO JOEY enteral feeding pump is the design, controlled calibration methods, and stringent manufacturing controls. One of the most critical functional parts of the KANGAROO JOEY enteral feeding platform is the AccuSystem√ feeding set produced by Tyco Healthcare Group LP. The functionality of the KANGAROO ePump AccuSystem√ feeding set is extremely important for maintaining quality and also for allowing the accurate delivery of nutrition and hydration.

The reason the KANGAROO JOEY enteral feeding pump and the KANGAROO ePump AccuSystem√ feeding sets have satisfied our customers' expectations is due to the integration of these two parts during the manufacturing process. The KANGAROO ePump AccuSystem√ feeding set manufacturing process parameters are tightly controlled at Tyco Healthcare Group LP to minimize variation and produce consistent and reliable products. The special grades of thermoplastic materials are also tightly controlled, and are specifically chosen to deliver consistent quality and accurate flow delivery with the KANGAROO JOEY enteral feeding pump. The factory calibration and final determination of an acceptable KANGAROO JOEY enteral feeding pump is dependent on the use of acceptable Tyco Healthcare Group LP KANGAROO ePump AccuSystem√ feeding sets. The use of generic feeding sets or other feeding sets not produced by Tyco Healthcare Group LP is not supported or sanctioned by Tyco Healthcare Group LP. The use of unauthorized feeding sets could jeopardize the accuracy of the KANGAROO JOEY enteral feeding pump. Check your feeding set for the AccuSystem√ logo to be certain that your KANGAROO JOEY enteral feeding pump will deliver accurately every time it is utilized.



OXYGEN CALL LIST

Monday Tuesday Wednesday Thursday Friday

Automatic Stop Call Weekly Every 2 Weekly Call 6 months Call Annually

(except MCR 3-5 yr customers, identify who called in the order and how much they have left)

Note:

1. Customers must be aware of their delivery day. They should call before noon on the business before their delivery day. We should not have "will call us" customers! After the first month, homefill **and** night time customers **with** internal filter concentrators will be called and have a home PMI at least every 6 months. Night time customers **without internal filters** must have a home PMI annually.
2. When making oxygen calls, if a customer only has 1-2 empty tanks, see if they have enough full tanks to last them another week.
3. Check on all **repeat supplies** with every 6 month / annual check. I.e. neb kits and filters, cpap / bipap supplies, etc
4. **Confirm** address, insurance and physician information with every supply order.

Name: _____ Phone: _____
(always make calls while looking at and updating the customers information in the computer)

(circle) **OXL OXQ OXM OXE OXD OXC OXB**

(circle) Home-Fill Cylinder: **Continuous Conserver** or **Helios** or **Conserver**

Comments/Supplies: _____

Other Equipment: _____

(circle) Rental Air Compressor with internal filter or **Rental Enteral Pump**

Annual check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

Annual check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

(use form ADFM024 for all oxygen set ups, all rental swaps, and rental equipment checks)

Concentrator Set up date _____ internal filter = every 6 months / no internal filter = annually

Physicians order: LPM _____ Duration _____ (check most current prescription / CMN on on-base, see DTWI004.)

PMI check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

PMI check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

PMI check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

PMI check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

PMI check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

PMI check due _____ Form ADFM024 initiated ___/___/___ By: _____ PMI Completed date ___/___/___

Account #: _____

