

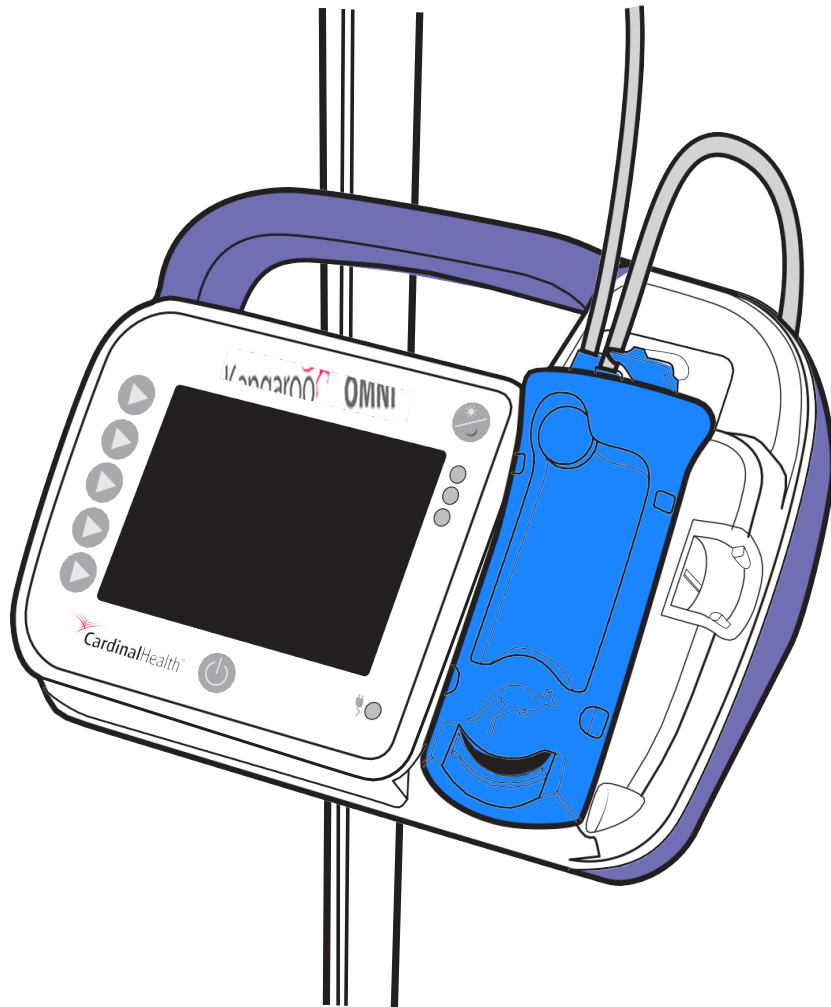
# Kangaroo™

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## KANGAROO OMNI™ Enteral Feeding Pump

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Instructions for Use



## Cautions

1. Should Kangaroo OMNI™ Feeding Sets require rinsing, **do not** manually operate the anti-free flow valve to avoid damage. It is recommended that the Kangaroo OMNI™ Feeding Sets be rinsed using the Kangaroo OMNI™ Enteral Feeding Pump. To rinse the feed bag, fill with rinsing fluid. Load feeding set into Kangaroo OMNI™ pump and utilize the Kangaroo OMNI™ pump Manual Prime feature to complete rinsing of the tubing.

## Features

- Large, color LCD display
- Night Mode reduces screen brightness by changing from full color display to black and amber
- Quiet Kangaroo OMNI™ Enteral Feeding Pump operation
- Step-by-step prompts and animated illustrations to guide Kangaroo OMNI™ Enteral Feeding Pump operation
- “Stoplight” LED array visually indicates Kangaroo OMNI™ Enteral Feeding Pump status
- Configurable 19 language user interface
- Kangaroo OMNI™ Enteral Feeding Pump is designed for cleaning under running water
- Integrated handle for portability
- Rubberized casing for better grip
- Compact, lightweight design
- Impact-resistant design to help minimize damage if dropped
- Tabletop, bed rail, or IV pole mounting
- No drip chamber allows pump to operate in various orientations
- ENFit™ cap storage
- Cord retention feature
- 20-hour battery life at 125 mL/hr
- 18 hours of battery life at 400 mL/hr
- 23 hours of battery life at 50 mL/hr
- Cassette based Kangaroo OMNI™ Feeding Set to facilitate set loading
- Simple, one-handed loading of Kangaroo OMNI™ Feeding Set cassette
- Color-coded Kangaroo OMNI™ Feeding Set identification system
- Audible alarm to indicate errors or Kangaroo OMNI™ Feeding Set-related conditions
- Interrupted Feeding screen for better adherence to nutrition prescription compliance
- Continuous and intermittent feeding capability
- Integrated programmable feed and flush capability
- Automatic Kangaroo OMNI™ Feeding Set priming
- Programmable timed pause
- View up to 30 days of feeding history

## Kangaroo OMNI™ Enteral Feeding Pump Overview: Front

**Selection Buttons:** Press the selection buttons next to the desired option on the screen.

**Night Mode Button:** Press once to switch screen to night mode. Press again to return to normal mode.

**Power Indicator Light:** Green light confirms Kangaroo OMNI™ Enteral Feeding Pump is connected to AC power.

**Cassette:** The feeding set component that attaches to the Kangaroo OMNI™ Enteral Feeding Pump.

**Pump Rotor:** Circular black wheel that drives fluid through the Kangaroo OMNI™ Feeding Set.

**Occlusion Sensor:** Pump component used to determine fluid presence and detect occlusions.

**Valve Actuator:** Pump component that opens and closes the Kangaroo OMNI™ Feeding Set valve used to prevent free flow of fluid.

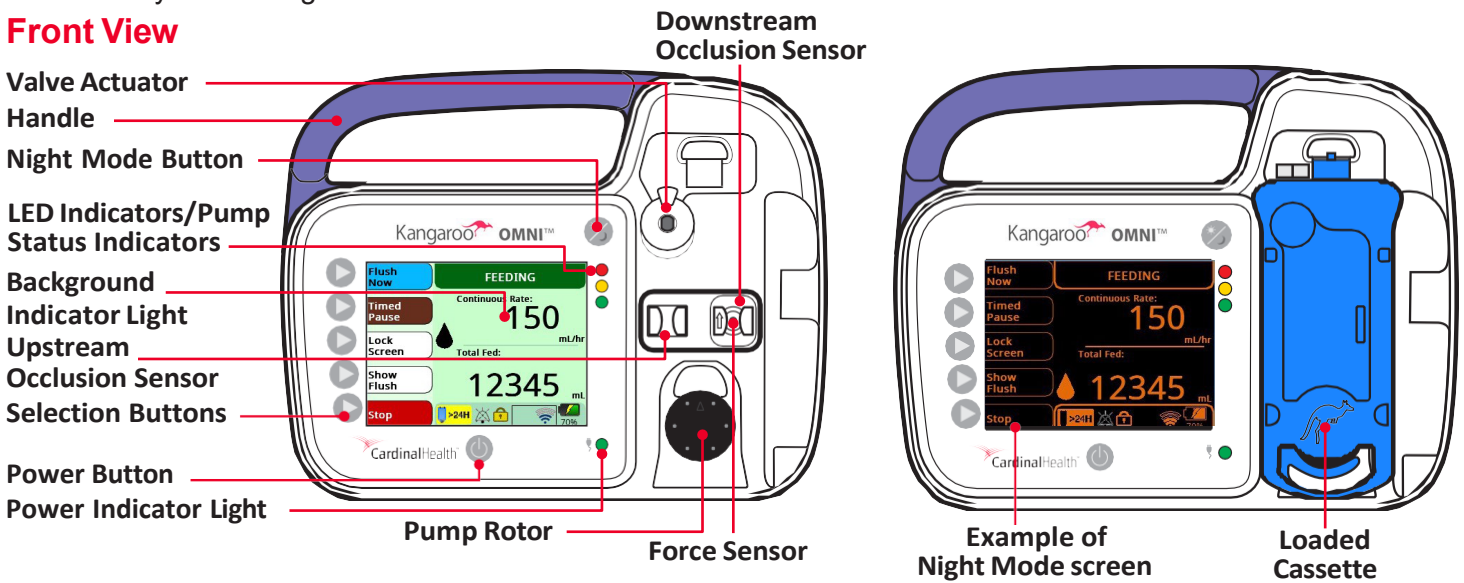
### Status Indicators:

● = Warning Alarm

● = Information or Caution Alarm

● = Standby or Feeding

### Front View



## Kangaroo OMNI™ Enteral Feeding Pump Overview: Back & Side

**Cord Retention Feature:** Secures power supply cable when using standard (non-adjustable) pole clamp.

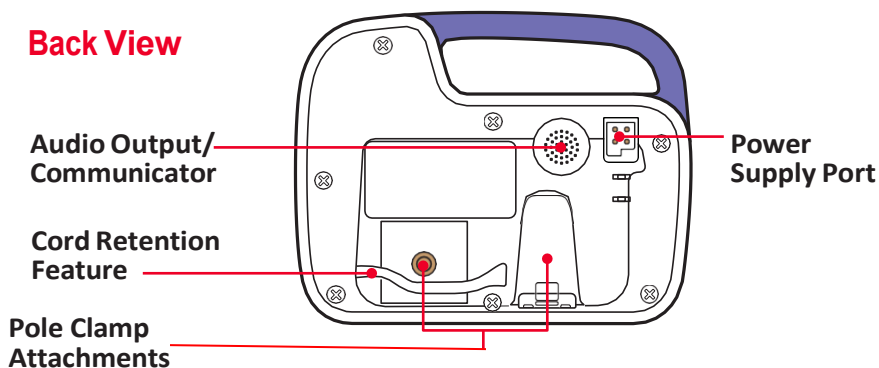
**Pole Clamp Attachments:** Attachment points for both standard (non-adjustable) and adjustable pole clamps.

**Power Supply Port:** Connection point for power supply/charge cable and Kangaroo OMNI™ Communications Cable.

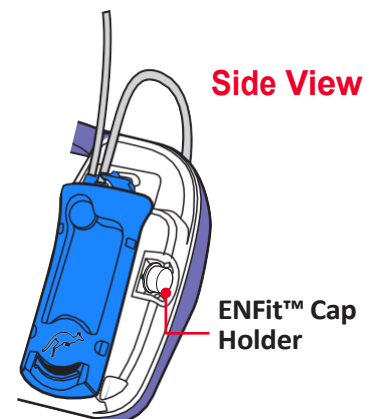
**ENFit™ Cap Holder:** Location to store ENFit™ cap while not in use.

**Audio Output:** Outlet for audible alarms.

### Back View



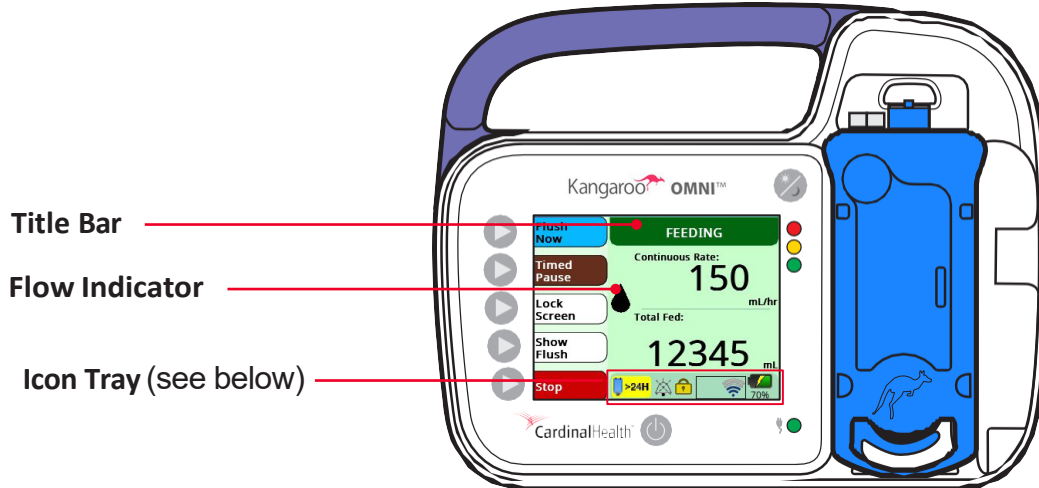
### Side View







## Kangaroo OMNI™ Enteral Feeding Pump Overview: User Interface

**Title Bar:** Communicates current running status of Kangaroo OMNI™ Enteral Feeding Pump.



**Flow Indicator:** Moving droplet indicates that Kangaroo OMNI™ Enteral Feeding Pump is delivering enteral fluid and is working normally.



### Icon Tray

	<b>Set Usage &gt;24 Hrs:</b> Indicates if the Kangaroo OMNI™ Feeding Set has been installed for more than 24 hrs.
	<b>Audio Paused:</b> Shows if audio has been muted/silenced.
	<b>Lock Settings:</b> Shows if Kangaroo OMNI™ Enteral Feeding Pump settings have been locked to prevent tampering.
	<b>Battery Charge Status:</b> Shows the percentage of charge remaining on Kangaroo OMNI™ Enteral Feeding Pump battery. A lightning bolt icon over the battery indicates that the battery is charging.

### Alarm Button Icons

	<b>Mute Alarm:</b> Press to temporarily silence alarm.
	<b>Restore Alarm:</b> Press to restore the sound of a previously acknowledged alarm.

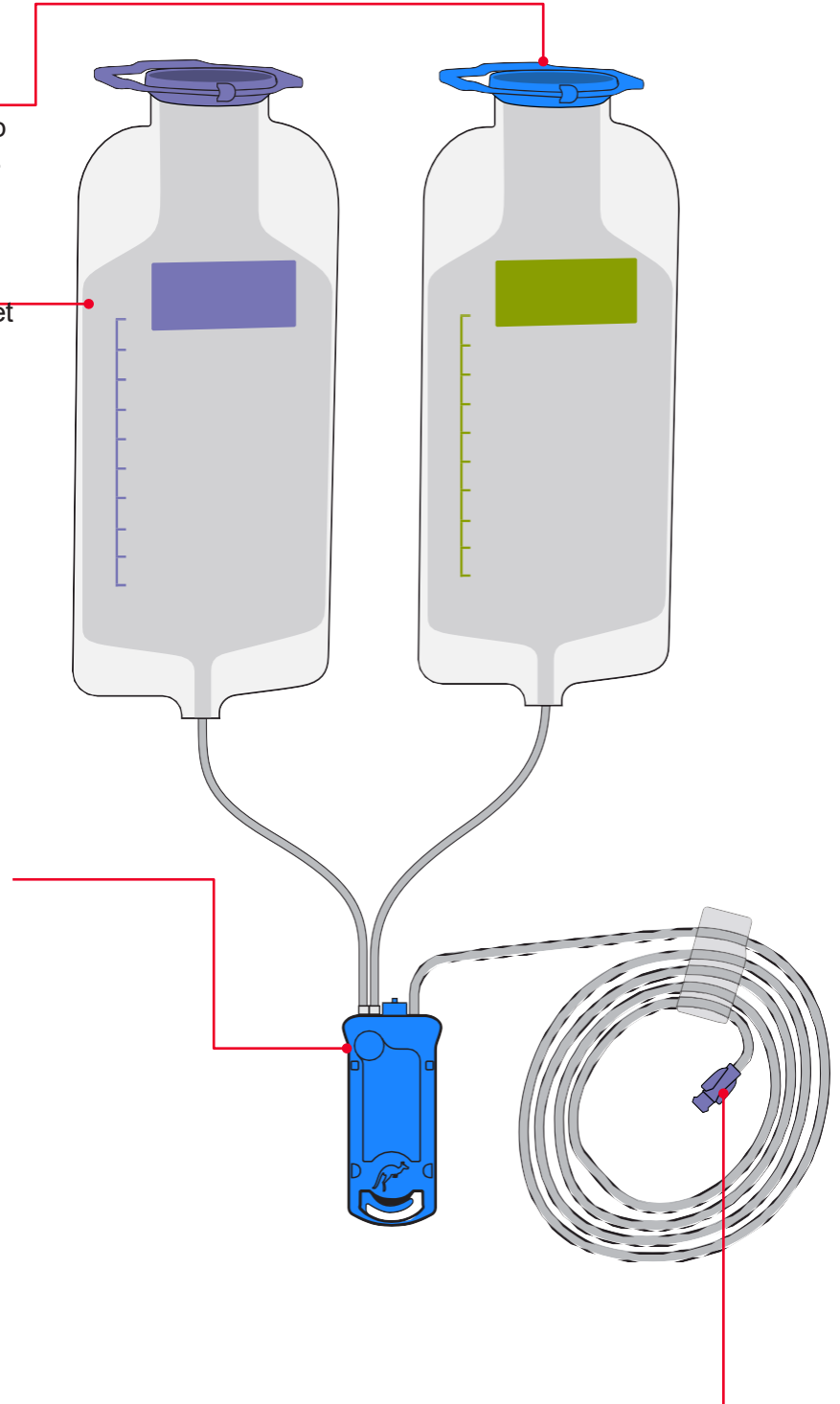
## Kangaroo OMNI™ Feeding Set Overview

The below is an example of a Kangaroo OMNI™ ENTelliSet™ Feeding Set with Flush Bag for illustration purposes only.

**Note:** product availability and type vary by region.

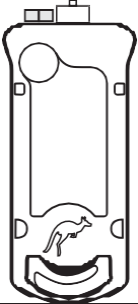
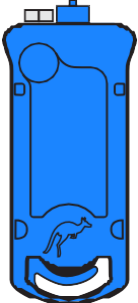
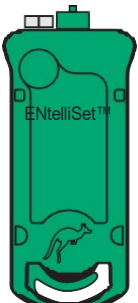
**Flush Bag:** (when applicable) intended for use in the administration of water to help manage patient hydration requirements and help keep the feeding tube patent to avoid tube clogs.

**Feeding Set Bag:** (also available in Spike Set option) intended for use in the administration of enteral fluids.

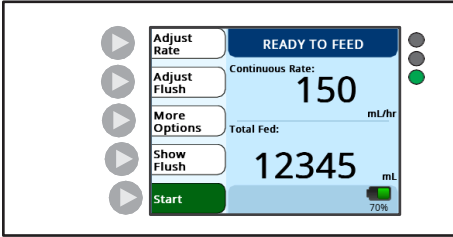


**Kangaroo OMNI™ Feeding Sets:** various feeding set options are compatible and available for use with the Kangaroo OMNI™ Enteral Feeding Pump Platform, see table on following page for the list of Kangaroo OMNI™ Feeding Sets.

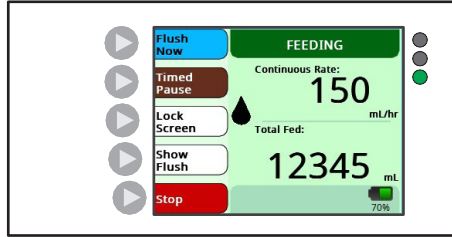
**ENFit™ Feeding Set Connector:** connects the feeding set to the feeding tube. The ENFit™ enteral feeding connector features a unique design to reduce the risk of enteral feeding tube misconnections and improve patient safety using internationally recognized ISO 80369-3 guidelines.

CASSETTE	COLOR	PRODUCT NAME	DESCRIPTION
	Clear	Kangaroo OMNI™ Feeding Set	Feeding set designed to deliver available formula (categorized as level 0-1 within the IDDSI framework)
	Blue	Kangaroo OMNI™ Feeding Set with Flush Bag	Feeding set designed to deliver available formula (categorized as level 0-1 within the IDDSI framework) and water for hydration/flushing
	Green	Kangaroo OMNI™ ENTelliSet™ Thick Formula Feeding Set  Kangaroo OMNI™ ENTelliSet™ Thick Formula Feeding Set with Flush Bag	Feeding set designed to deliver homogenized, blenderized formulas (categorized as level 2, 3, or 4 drinks within the IDDSI framework)  Feeding set designed to deliver homogenized, blenderized formulas (categorized as level 2, 3, or 4 drinks within the IDDSI framework) and water for hydration/flushing

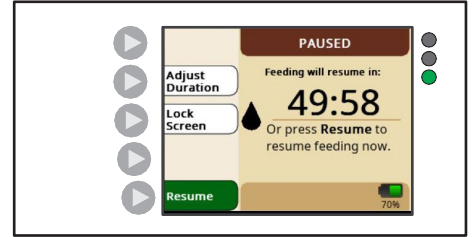
## Screen Color Meaning



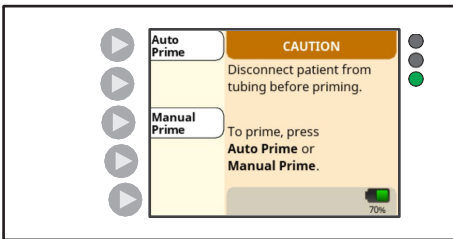
Blue Background:  
Configuring pump for use  
Feeding set valve closed



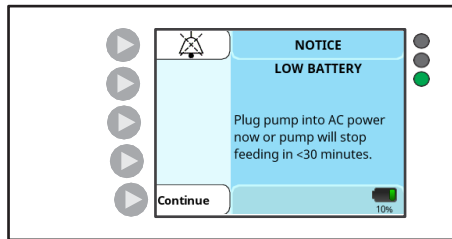
Green Background:  
Pump running  
Droplet will be moving  
Feeding set valve open



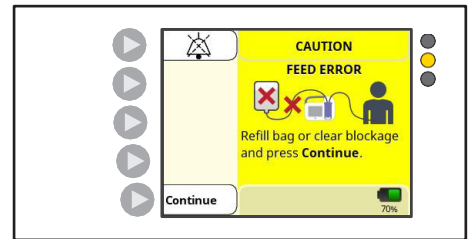
Brown Background:  
Pumping paused  
Droplet will be paused  
Feeding set valve open



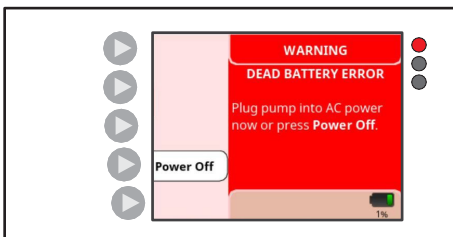
Orange Background:  
Caution



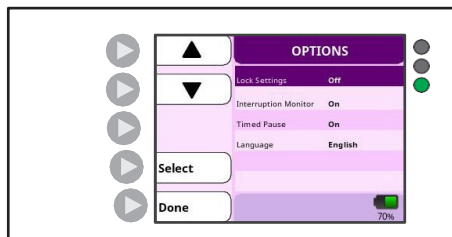
Light blue Background:  
Low Priority Alarm



Yellow Background:  
Medium Priority Alarm



Red Background:  
High Priority Alarm



Purple Background:  
Biotech Mode

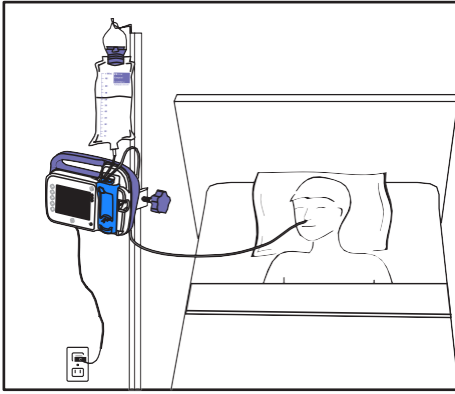
## Kangaroo OMNI™ Default Settings

The pump is manufactured with the following default settings:

FEATURE	DEFAULT SETTING
Feed Rate	0 mL/hr
Flush Volume	0 mL
Flush Interval	1 hr
Intermittent Mode	Off
# of Feeds (Intermittent Mode)	1
Feed Volume (Intermittent Mode)	0 mL
Feed Interval (Intermittent Mode)	1 hr
Feed Complete Audio	On
Alarm Audio Volume	3 (1 to 5 scale)
Screen Brightness	3 (1 to 4 scale)
Interruption Monitor	Off
Timed Pause Option	On
Timed Pause Time	5 min
Language	English



# System Setup



Above image for illustrative purposes only. Does not accurately depict recommended setup.

**Important Note:** A newly purchased Kangaroo OMNI™ Enteral Feeding Pump comes with Kangaroo OMNI™ Enteral Feeding Pump, AC power adapter, Kangaroo OMNI™ Feeding Set, and pole clamp. Kangaroo OMNI™ Enteral Feeding Pump and along with Kangaroo OMNI™ Feeding Sets and accessories, need to be installed and put into service in accordance with the information provided by this manual and accompanying documents.

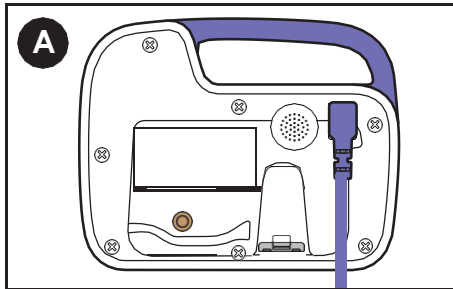
## INITIAL SETUP

### 1. Charge Kangaroo OMNI™ Enteral Feeding Pump

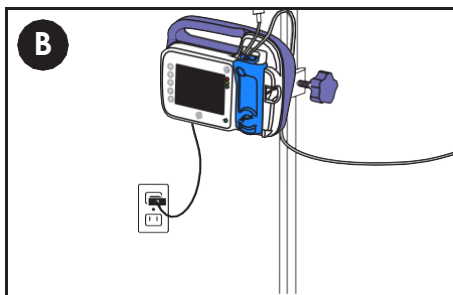
**WARNING:** The use of multiple socket-outlets or extension cords will compromise electrical safety and/or increase the risk of electrical shock.

**CAUTION:** Avoid leaving wires, cords, or tubing in a pathway where a person could trip on them and sustain an injury.

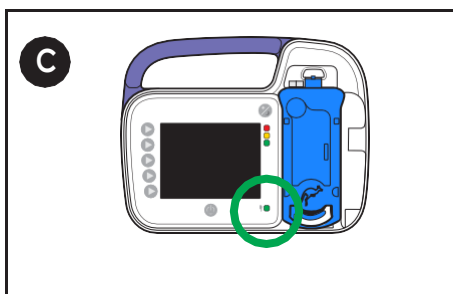
**CAUTION:** Use only the supplied power adapter to charge your Kangaroo OMNI™ Enteral Feeding Pump.



A. Plug the power adapter into the power adapter port located on the back of Kangaroo OMNI™ Enteral Feeding Pump.



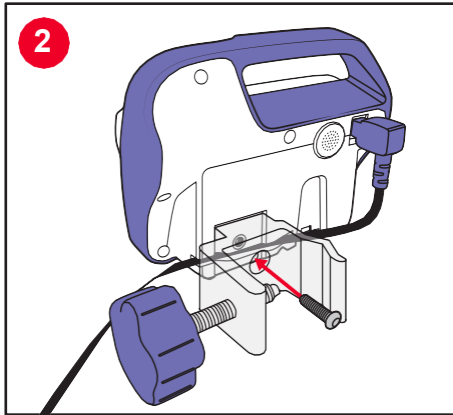
B. Plug the other end of the power adapter into a nearby AC outlet.



C. Confirm the green Power Indicator Light is on to ensure Kangaroo OMNI™ Enteral Feeding Pump is receiving power.

**Note:** Charge Kangaroo OMNI™ Enteral Feeding Pump for a minimum of 12 hours before initial use.

# System Setup

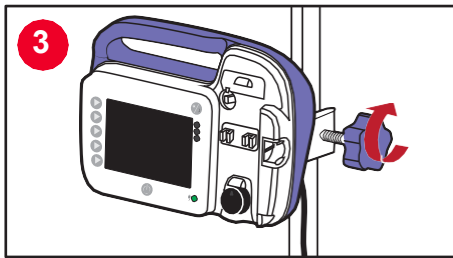


## 2. Attach the Pole Clamp to Kangaroo OMNI™ Enteral Feeding Pump

- A. Use the screw provided to attach the pole clamp to the back of Kangaroo OMNI™ Enteral Feeding Pump. The pole clamp can be attached in a horizontal or vertical orientation.

**Optional:** Place the power cable into the channel on the back of Kangaroo OMNI™ Enteral Feeding Pump. This will ensure the power adapter stays with Kangaroo OMNI™ Enteral Feeding Pump once the pole clamp is attached.

**Note:** If you are using the adjustable pole clamp accessory, refer to Cap Storage and Pole Clamp Setup section for instructions.

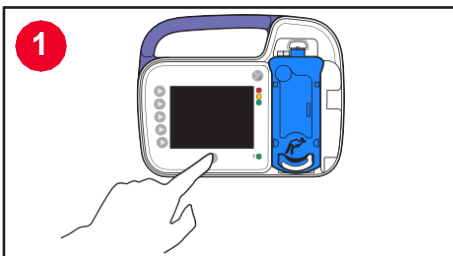


## 3. Attach the Pole Clamp and Kangaroo OMNI™ Enteral Feeding Pump to the IV Pole

**CAUTION:** When attaching Kangaroo OMNI™ Enteral Feeding Pump to the IV pole, take precautions to ensure the IV pole remains stable while in use.

- A. Place the inside elbow of the clamp against IV pole.
- B. Turn the purple knob clockwise until secure.

## Kangaroo OMNI™ Enteral Feeding Pump SETUP



### 1. Turn On Kangaroo OMNI™ Enteral Feeding Pump

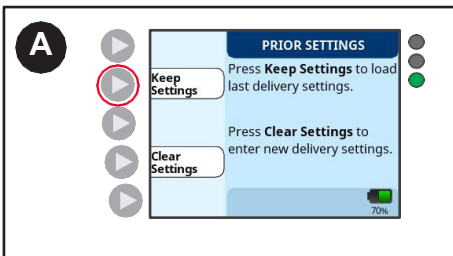
- A. Press the **Power** button to turn on Kangaroo OMNI™ Enteral Feeding Pump.

**Note:** The language selection screen will appear the first time Kangaroo OMNI™ Enteral Feeding Pump is powered on.

### 2. Select Kangaroo OMNI™ Enteral Feeding Pump Settings

**Note:** The Prior Settings screen will appear if the pump was previously configured. Otherwise, the Load Set screen will be shown.

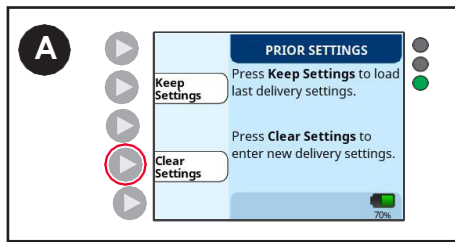
#### 2a. Keep the previous rate/feed settings:



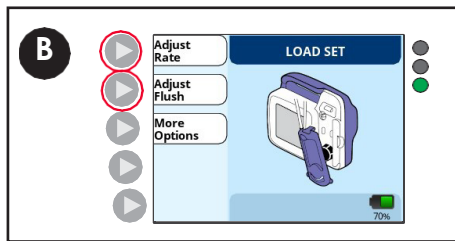
- A. Press the **Keep Settings** button.

# System Setup

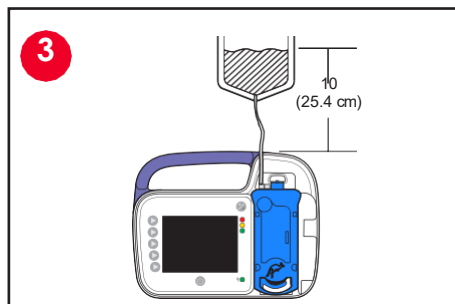
## 2b. Clear previous rate/feed settings:



A. Press the **Clear Settings** button.



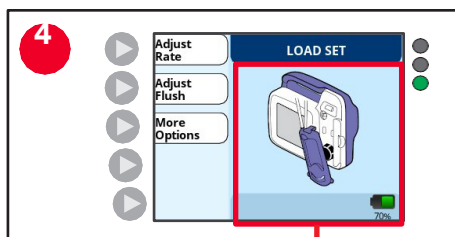
B. Press the **Adjust Rate** button or the **Adjust Flush** button and make any desired adjustments. (See Set Feed/Rate section below for additional information).



### 3. Hang Feeding Bag/Feeding Container on IV Pole

**CAUTION:** The top of the starting volume of enteral fluids should be 10 inches above the top of Kangaroo OMNI™ Enteral Feeding Pump.

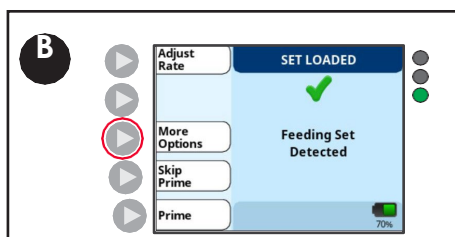
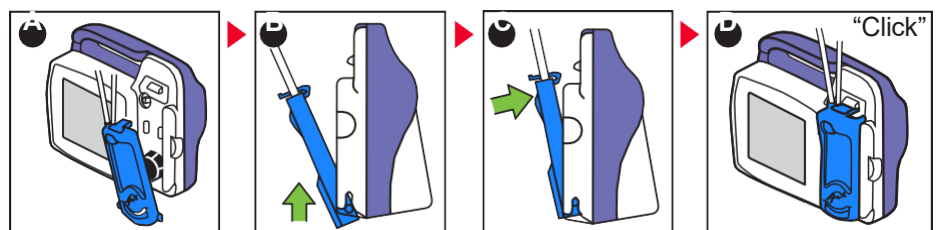
A. Hang the feeding bag or feeding container so the highest level of enteral fluids is 10 inches (25.4 cm) above Kangaroo OMNI™ Enteral Feeding Pump (as shown).



### 4. Install the Kangaroo OMNI™ Feeding Set Cassette

**CAUTION:** Use only approved Kangaroo OMNI™ Feeding Sets with Kangaroo OMNI™ Enteral Feeding Pump.

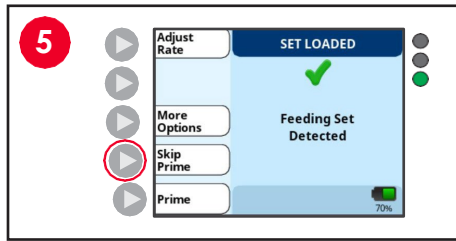
A. Load the cassette onto Kangaroo OMNI™ Enteral Feeding Pump by following the animated instructions on the screen. You will hear a “click” when the cassette has been installed correctly.



B. The Set Loaded screen will confirm that Kangaroo OMNI™ Enteral Feeding Pump has correctly identified the Kangaroo OMNI™ Feeding Set. You will now be ready to prime the Kangaroo OMNI™ Feeding Set.

**Optional:** To change Kangaroo OMNI™ Enteral Feeding Pump preferences, press the **More Options** button (see More Options section for additional information).

# System Setup

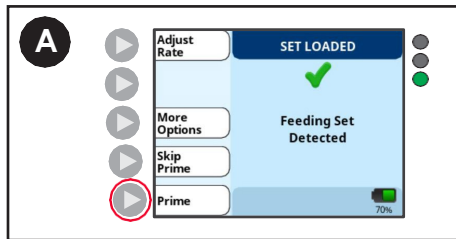


## 5. Prime Kangaroo OMNI™ Enteral Feeding Pump

**Note:** If the Kangaroo OMNI™ Feeding Set is already primed, press the **Skip Prime** button.

### 5a. Auto Prime Kangaroo OMNI™ Enteral Feeding Pump Feed Only or Feed with Flush Feeding Set

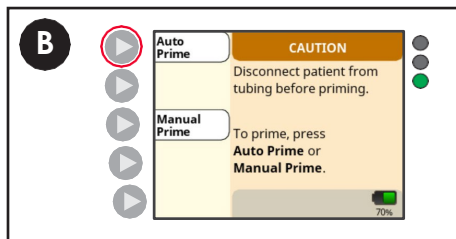
To prime the Kangaroo OMNI™ Feeding Set, first fill the bag(s) with feeding solution or connect a pre-filled container.



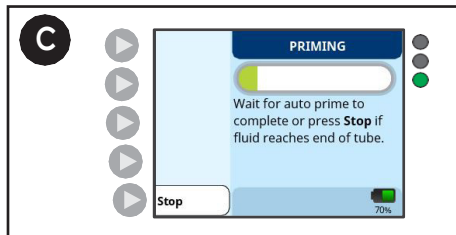
A. Press the **Prime** button.

**WARNING:** Patient **must not** be connected to Kangaroo OMNI™ Enteral Feeding Pump when priming is performed.

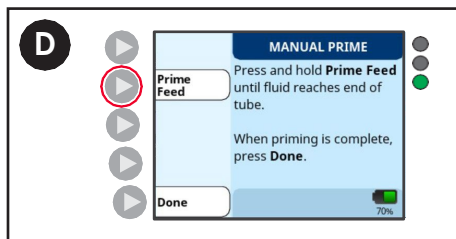
**Please note:** When using a Feed with Flush Feeding Set, **always** prime the flush tubing before the feed tubing when using Kangaroo OMNI™ Feed Sets with Flush Bags. The Auto Prime feature of Kangaroo OMNI™ will manage this for you. Priming the flush tubing after priming the feed tubing will introduce air in the tubing after the feeding solution, which will require the feed tubing to be primed again to remove the air.



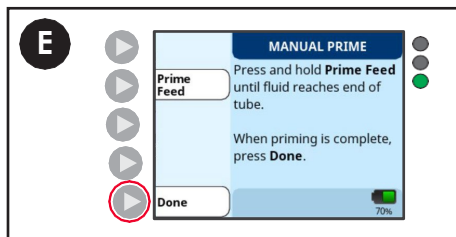
B. Press the **Auto Prime** button to automatically prime the feeding set or feed with flush set.



C. Kangaroo OMNI™ Enteral Feeding Pump will show a progress bar indicating the automatic prime is in process. Wait for the priming to complete.



D. Press and hold the **Prime Feed** button until the feeding solution just begins to exit the distal connector.

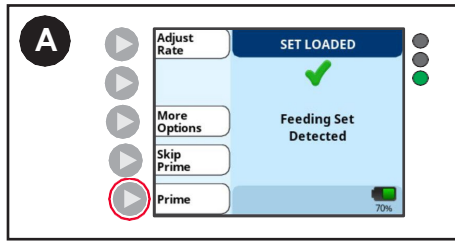


E. Press the **Done** button to continue with Kangaroo OMNI™ Enteral Feeding Pump set-up.

# System Setup

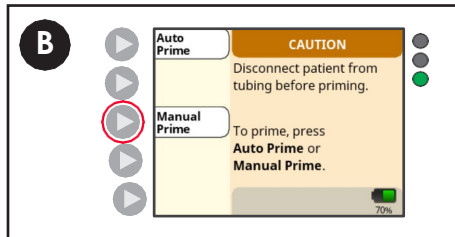
## 5b. Manually Prime Kangaroo OMNI™ Feed Only Feed Set

To prime the Kangaroo OMNI™ Feeding Set, first fill the bag(s) with feeding solution or connect a pre-filled container.

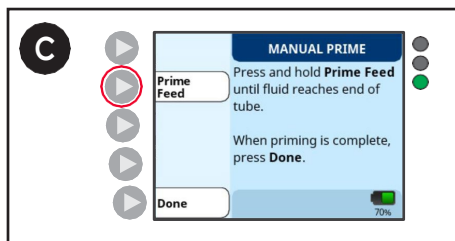


A. Press **Prime**.

**WARNING:** Patient **must not** be connected to Kangaroo OMNI™ Enteral Feeding Pump when priming is performed.

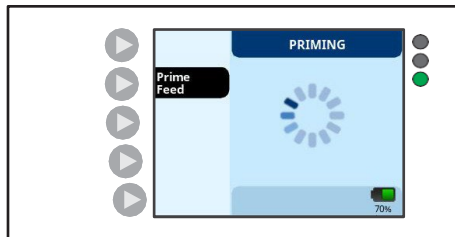


B. Press **Manual Prime**.



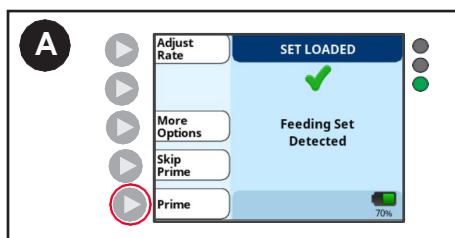
C. Press and hold the **Prime Feed** button until the feeding solution just begins to exit the distal connector.

**Note:** When using Manual Prime feature, Feed Bag Empty, and Patient Tube Blocked alarms are disabled. Flush options will only be present when a feeding set with flush bag is used.



## 5c. Manually Prime Kangaroo OMNI™ Feed with Flush Feeding Set

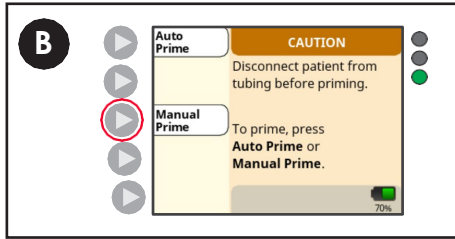
To prime the Kangaroo OMNI™ Feeding Set, first fill the bag(s) with feeding solution or water or connect a pre-filled container.



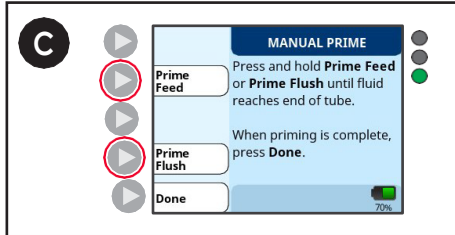
A. Press **Prime**.

**WARNING:** Patient **must not** be connected to Kangaroo OMNI™ Enteral Feeding Pump when priming is performed.

# System Setup



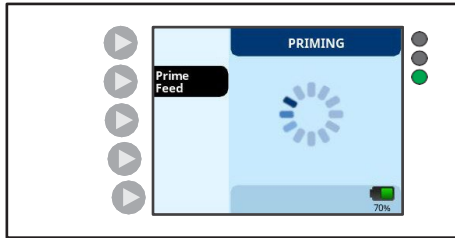
B. Press **Manual Prime**.



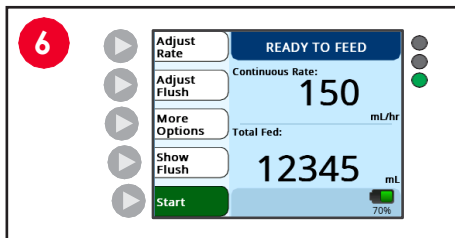
C. Press and hold the **Prime Feed** or **Prime Flush** button until the solution just begins to exit the distal connector.

**Note:** When using Manual Prime feature; Feed Bag Empty, and Patient Tube Blocked alarms are disabled. Flush options will only be present when a feeding set with flush bag is used.

**Caution:** prime the flush tube before the feed tube when using Kangaroo OMNI™ Feed Sets with Flush Bags. The Auto Prime feature of Kangaroo OMNI™ will manage this for you. Priming the flush tube after priming the feed tube will introduce air in the tubing after the feeding solution, which will require the feed tube to be primed again to remove the air.



## Continuous Mode



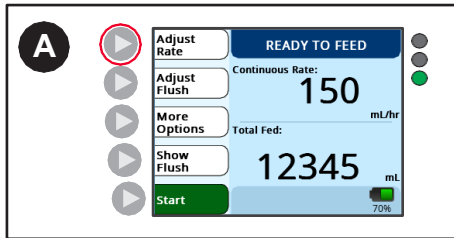
## 2. Adjusting Rate, Feed, and Flush

Upon completion of the prime, the Ready to Feed screen will appear.

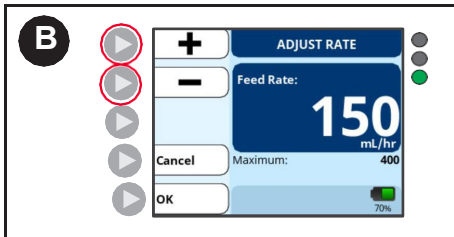
# System Setup

## 6a. Adjusting Continuous Feeds

Continuous Feeds is a feeding mode where a patient is fed continuously at a prescribed flow rate. The Rate feature on Kangaroo OMNI™ Enteral Feeding Pump is used to establish a fixed volume per hour (mL/hr) rate that will continue until the feed runs out or Kangaroo OMNI™ Enteral Feeding Pump is stopped.



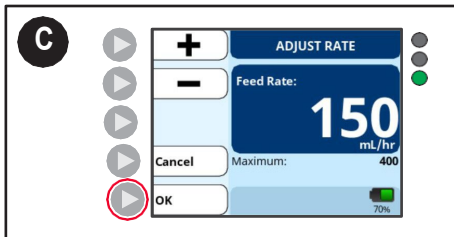
A. Press the **Adjust Rate** button to set the continuous feeding rate.



B. Press the + and – buttons to increase or decrease the rate.

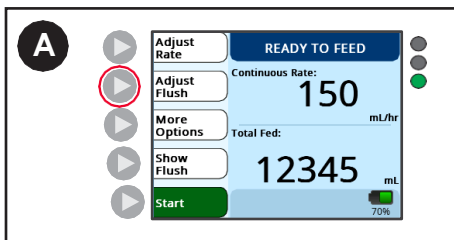
**Note:** Press and hold either button to accelerate the numbers.

**Note:** If accessing Bolus Max feature, navigate to a rate of 400mL/hr, then press the + button again. A confirmation screen will appear that will allow access to Bolus Max.

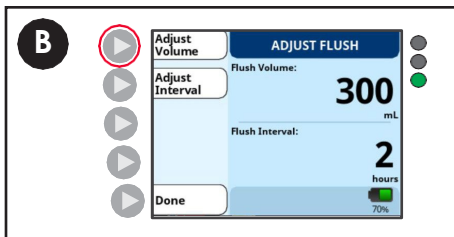


C. Press the **OK** button when desired rate has been selected.

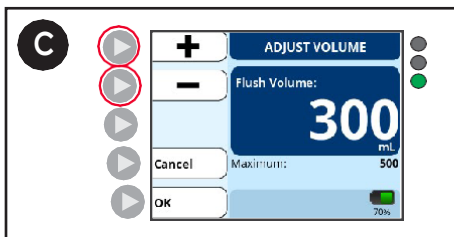
## 6d. Adjusting Flush (Feed with Flush Kangaroo OMNI™ Sets)



A. Press the **Adjust Flush** button from Ready to Feed screen.

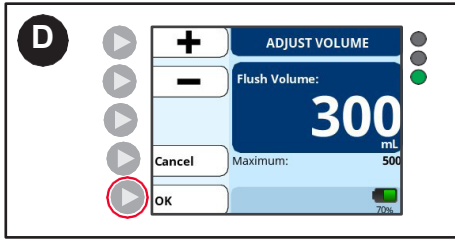


B. Press the **Adjust Volume** button.

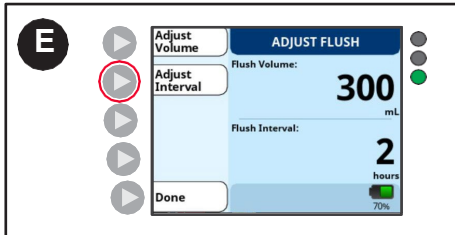


C. Press the + and – buttons to input the desired flush volume.

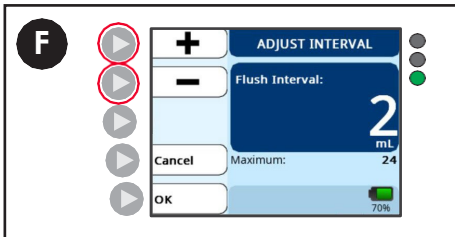
# System Setup



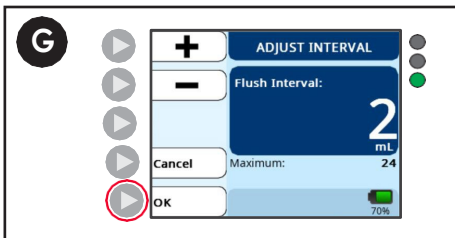
D. Press the **OK** button to confirm the flush volume and return to the **Adjust Flush** screen.



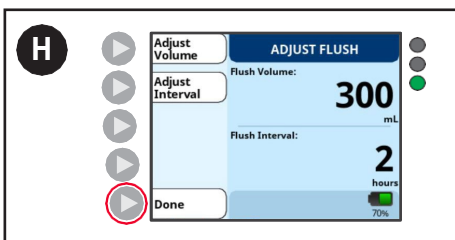
E. Press the **Adjust Interval** button.



F. Press the + and – buttons to input the desired time interval.



G. Press the **OK** button to confirm the time interval and return to the **Adjust Flush** screen.

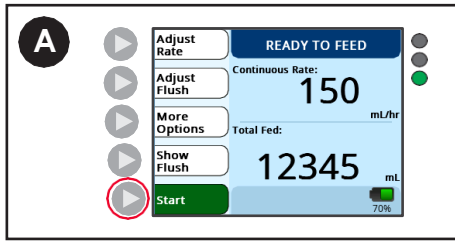


H. Press the **Done** button to confirm the time interval and return to the **Ready to Feed** screen.



# System Setup

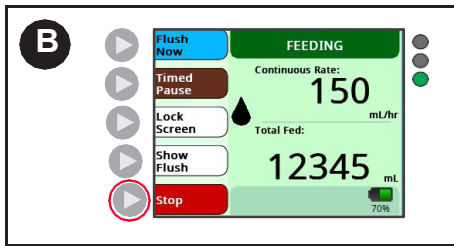
## 7. Start Feeding Continuous Mode



A. Press the **Start** button to begin feeding.

**Note:** Start button will only appear when all feed or all flush parameters have been entered.

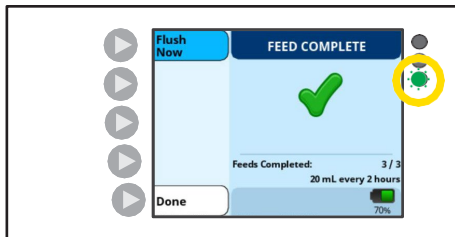
### Continuous Mode



B. To change the rate or feed setting once feeding has started, press the **Stop** button.

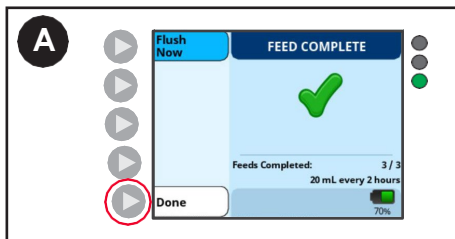
**Note:** A green screen with a moving droplet means the feeding is in progress.

### Feed Complete Information Signal



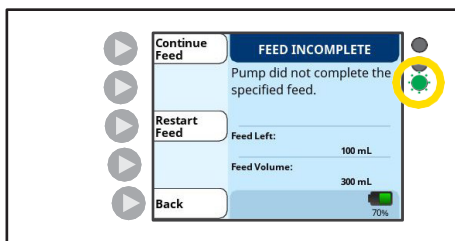
Pump Status Indicator: blinking green 


The FEED COMPLETE screen appears at the end of a single or multiple feed.



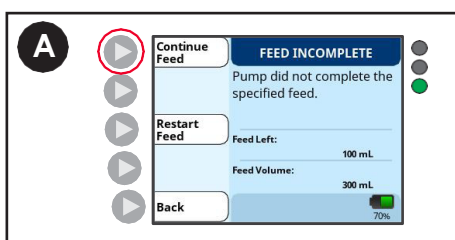
A. Press **Done** to clear the notification.

### Feed Incomplete Information Signal



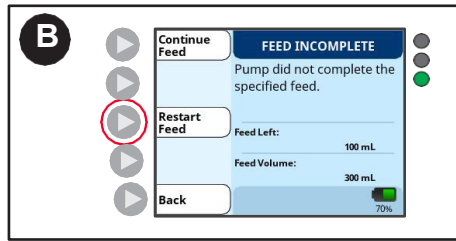
LED Indicator: blinking green 

The FEED INCOMPLETE appears if a single or multiple feed is interrupted prior to completion of the allocated amount.



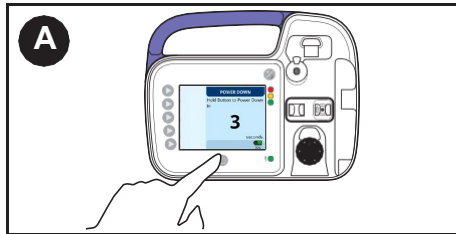
A. Press **Continue Feed(s)** to continue feeding from the current Kangaroo OMNI™ Enteral Feeding Pump state.

# System Setup



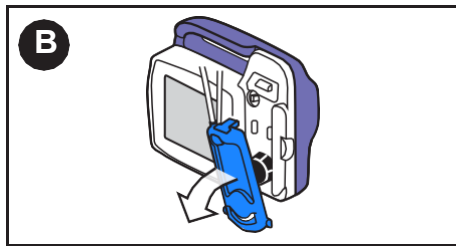
B. Press **Restart Feeds** if you are beginning a new, full feeding regimen.

## Turn Off Kangaroo OMNI™ Enteral Feeding Pump



A. Press and hold Power Button for 3 seconds.

**Note:** Turning off Kangaroo OMNI™ Enteral Feeding Pump will save settings.

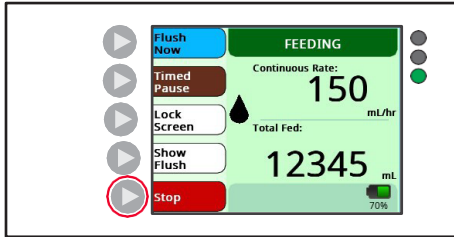


B. Remove and dispose of feeding set.

# System Setup

## ADDITIONAL OPTIONS WHILE FEEDING IS IN PROGRESS

### Stop Feeding



Press the **Stop** button to end the feeding at any time.

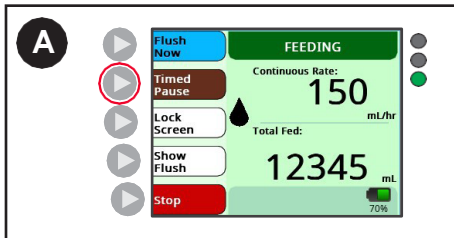
### Pause Feeding

The Timed Pause feature allows Kangaroo OMNI™ Enteral Feeding Pump to be paused temporarily for a period of 5 to 240 minutes. While paused, Kangaroo OMNI™ Enteral Feeding Pump will move a very small amount of feeding solution through the Kangaroo OMNI™ Feeding Set.

**WARNING:** When the pause duration ends, Kangaroo OMNI™ Enteral Feeding Pump will automatically restart feeding.

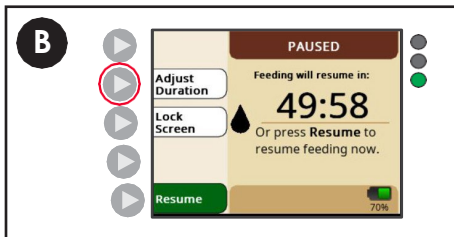
**Note:** The flow rate during the timed pause is 0.175 mL/hr for pause times greater than 30 minutes.

**Note:** The Timed Pause feature can be disabled though Biotech mode if users want to avoid its use.

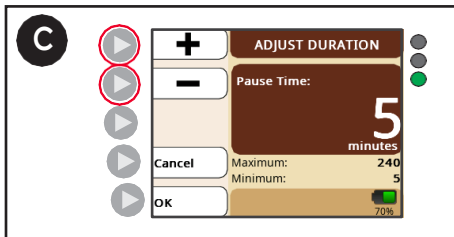


A. Press the **Timed Pause** button. Default pause time is 5 minutes.

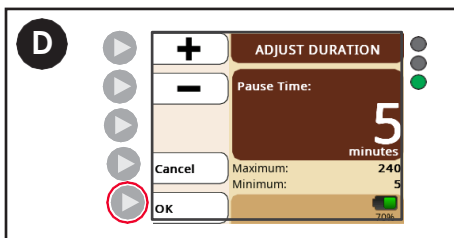
**Note:** An amber screen with a stationary droplet means the feeding is paused.



B. To adjust pause duration from 5 minutes, press the **Adjust Duration** button.

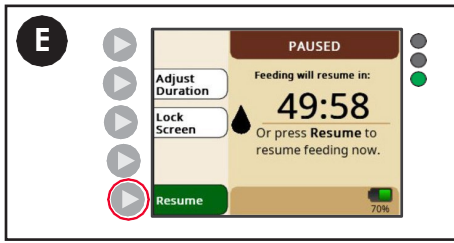


C. Press the + and – buttons to select the new duration.



D. Press the **OK** button to confirm the desired pause time. The Timed Paused screen will show a time countdown until the pause duration is complete.

## System Setup



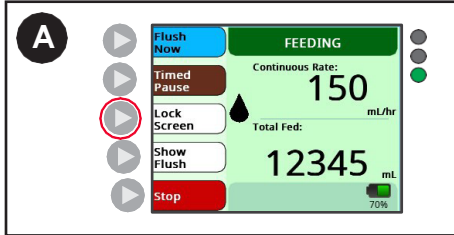
- E. Press the **Resume** button to end the Timed Pause early and immediately resume feeding.

# System Setup

## Lock / Unlock Input Screen

Kangaroo OMNI™ Enteral Feeding Pump allows the user to lock the input screen to prevent accidental button presses during portable use. This is especially helpful when transporting Kangaroo OMNI™ Enteral Feeding Pump in a backpack.

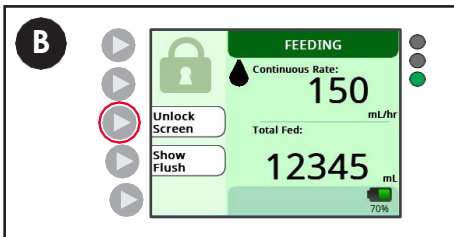
### Lock Input Screen



- A. Press and hold the **Lock Screen** button for 5 seconds to lock the screen.

**Note:** A countdown will appear to show how long to hold the button. A lock symbol will appear on the Feeding screen once the lock screen has been activated and the buttons will be disabled.

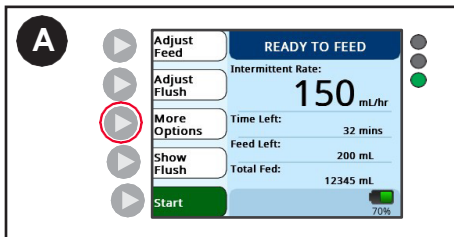
### Unlock Input Screen



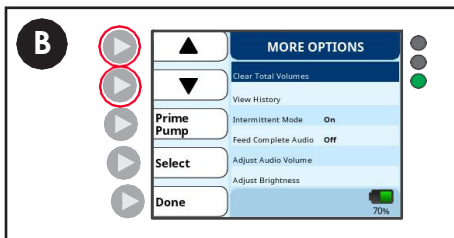
- B. To disable the Lock Screen and reactivate buttons, press and hold the **Unlock Screen** button for 5 seconds.

**Note:** A countdown will appear to show how long to hold the button. The lock symbol will disappear on the Feeding screen and buttons will be re-enabled.

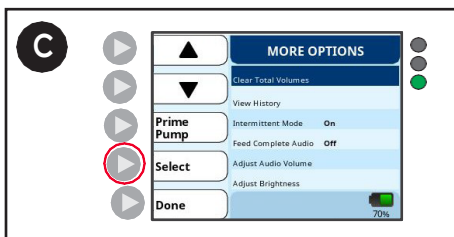
## Access Additional Setup Options:



- A. Press the **More Options** button on the Ready to Feed or Set Loaded screen.

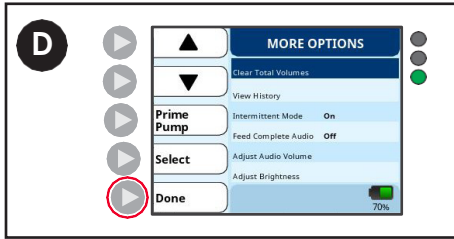


- B. Use the arrow keys to highlight the feature you want to activate.



- C. Press the **Select** button to activate the highlighted feature.

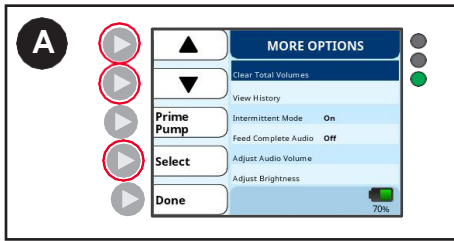
# System Setup



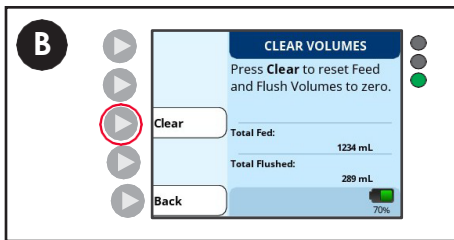
D. Press the **Done** button to return to Ready to Feed.

## Clear Total Volume:

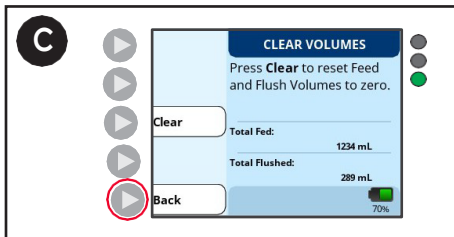
This feature resets the feeding and flushing counters to zero. Use for starting a new patient or a new feeding.



A. In the More Options screen, use the arrow keys to select **Clear Total Volumes**, and press the **Select** button.



B. Press the **Clear** button.

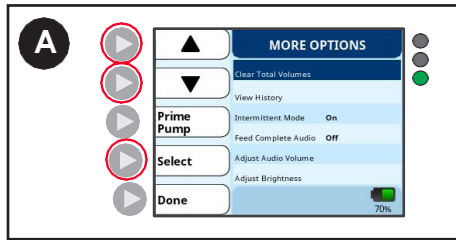


C. Press the **Back** button to return to More Options.

# System Setup

## View History:

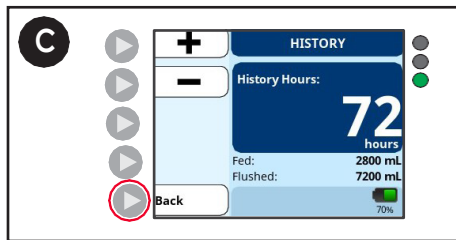
This feature retrieves Kangaroo OMNI™ Enteral Feeding Pump history for the last 30 days.



- A. In the More Options screen, use the arrow keys to select **View History**, and press the **Select** button.



- B. Press the **View Hours** button or the **View Days** button.



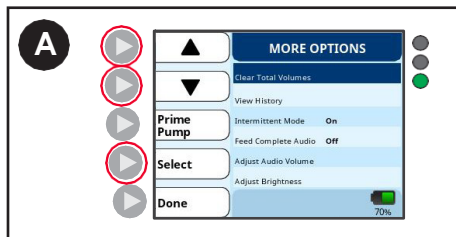
- C. Press the **Back** button to return to History.



- D. Press the **Back** button to return to More Options.

## Adjust Audio Volume:

This feature sets the desired volume level for all alarms and notifications.

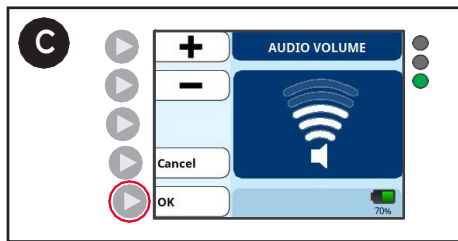


- A. In the More Options screen, use the arrow keys to select **Adjust Audio Volume**, and press the **Select** button.



- B. Press the + and – buttons to input the desired volume.

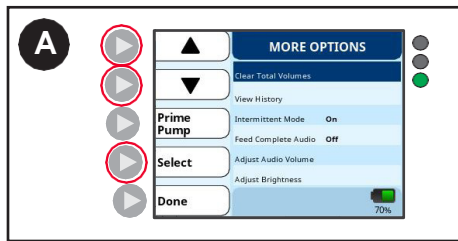
# Cleaning



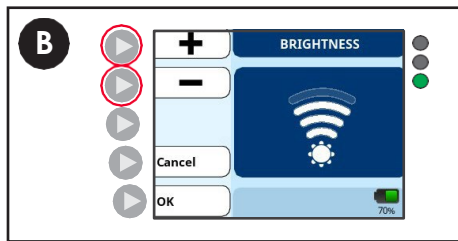
C. Press the **OK** button to return to More Options.

## Adjust Brightness:

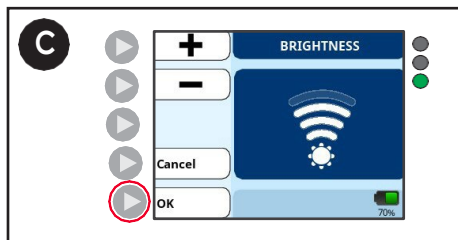
This feature adjusts the brightness of the display backlight.



A. In the More Options screen, use the arrow keys to select **Adjust Brightness**, and press the **Select** button.



B. Press the + and – buttons to input the desired brightness.



C. Press the **OK** button to return to More Options.

A. Press the **Start** button to begin feeding.

**Note:** Start button will only appear when all feed or all flush parameters have been entered.

**Caution:** Kangaroo OMNI™ Enteral Feeding Pump, and power adapters are not designed to be immersed underwater. **Do not** immerse Kangaroo OMNI™ Enteral Feeding Pump, or power adapters in water or other cleaning solutions. Failure to follow the cleaning procedures described herein could result in hazards to users, patients, and clinicians. As with any A/C powered electrical device, care must be taken to prevent liquid from entering Kangaroo OMNI™ Enteral Feeding Pump to avoid electrical shock hazard, fire hazard, or damage to electrical components.

**Caution:** Disconnect Kangaroo OMNI™ Enteral Feeding Pump from A/C power source before thoroughly cleaning. After thoroughly cleaning, **do not** connect to an A/C power source until thoroughly dry.

**Caution:** User should not disassemble the device when cleaning.

If any of the following events occur, do not use Kangaroo OMNI™ Enteral Feeding Pump until it has been properly cleaned and dried. For assistance, please contact Customer Service.

- Wetting of the power adapter
- Leakage into Kangaroo OMNI™ Enteral Feeding Pump interior



# Cleaning

## General Cleaning Instructions

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. A mild, common dish washing liquid detergent should be used for general cleaning. This detergent should be used with a 20:1 ratio water to detergent mixture.

Inspect the device for any visible soil immediately following usage and/or procedure. If visible soil is present, wipe down Kangaroo OMNI™ Enteral Feeding Pump with a paper towel moistened with the cleaning solution, removing all visible soil. Use a brush to remove soil from hard to reach crevices. **Users should inspect the device after cleaning**

**for any visible soil to ensure the device is cleaned between uses. If soil is visibly present, repeat the cleaning steps before moving to disinfection instructions.** After thoroughly cleaning, store the pump and accessories in an area free of dirt, dust, pet hair, and other contaminants.

**Caution:** The use of cleaners and disinfectants other than the ones described in the instructions for use may cause significant damage to Kangaroo OMNI™ Enteral Feeding Pump and may void warranty.

## Cleaning Frequency

It is recommended that Kangaroo OMNI™ Enteral Feeding Pump be thoroughly cleaned after each Kangaroo OMNI™ Feeding Set use for a minimum duration of 30 seconds, to prevent bacterial contamination. Further, failure to thoroughly clean Kangaroo OMNI™ Enteral Feeding Pump can interfere with the function of the Kangaroo OMNI™ Enteral Feeding Pump rotor and sensors, which can increase the occurrence of errors and warning alarms. See below for methods for cleaning each component. High frequency of cleaning or cleaning with severe chemicals can cause the plastic housing to crack or break. This can result in electric shock or other risks. **Do not** clean more than necessary to meet user/operator needs.

## Instructions for Cleaning Kangaroo OMNI™ Enteral Feeding Pump

### Pump Housing Cleaning

- Refer to General Cleaning Instructions above before starting.
- Thoroughly clean outside surface with a damp cloth or sponge using a mild detergent. Ensure all cleaning solution is rinsed or wiped from the device.
- For difficult to clean areas, it is permissible to wash Kangaroo OMNI™ Enteral Feeding Pump under running water. Avoid submerging Kangaroo OMNI™ Enteral Feeding Pump or washing with high pressure nozzles, which exceeds the water proof rating of the pump. Kangaroo OMNI™ Enteral Feeding Pump casing has a water proof rating of “water jet resistant”. This allows for washing under running water or wiping with a damp cloth.
- For excessive cleaning needs, avoid use of sharp objects during the cleaning process. Use of a soft bristle brush for example may be used.
- Users should inspect the device after cleaning for any visible soil to ensure the device is cleaned between uses. If soil is visibly present, repeat the cleaning steps before moving to disinfection instructions.

# Cleaning

## AC Adapter Cleaning

- Refer to General Cleaning Directions before starting.
- The AC adapter normally does not require cleaning. If soiling of the AC adapter is observed, unplug from outlet and wipe the exterior surfaces of the AC adapter with a non-abrasive dry or slightly damp cloth.
- Allow excess moisture to evaporate from the AC adapter prior to use.  
**Caution:** Avoid exposing AC adapter to excess moisture, as this can lead to an electrical shock or fire hazard. The power adapter is rated IPX0 which is not water resistant.

## Rotor Cleaning

- Refer to General Cleaning Directions before starting.
- Use a cotton swab to clean the rollers thoroughly with a solution of warm water and a mild dishwashing detergent.

## Sensor Cleaning

- Use a damp cotton swab to clean the sensors and the pathway where the cassette is seated.

## *Disinfection*

**Caution:** Avoid exposing the power adapter to excess moisture, as this can lead to an electrical shock or fire hazard.

## **General Disinfection Instructions**

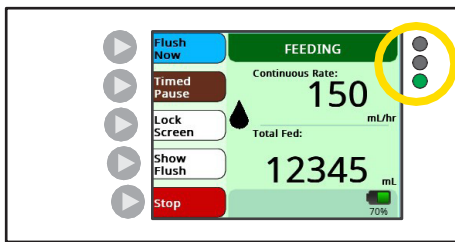
Kangaroo OMNI™ Enteral Feeding Pump can be disinfected by wetting its surfaces with 70% isopropyl alcohol. To wet the device, use at least two 70% isopropyl alcohol, lint-free wipes and wipe as necessary to maintain visual wetness. Visual wetness should be maintained for a minimum duration of 10 minutes or until dry, whichever is longer.

Alternatively, Kangaroo OMNI™ Enteral Feeding Pump can be disinfected by wetting its surfaces with 10% bleach solution. To wet the device, use sterile, lint-free wipes saturated with the solution and wipe as necessary to maintain visual wetness. Use additional fresh, sterile, lint-free wipes saturated with the solution as needed to keep the surface visually wet for a minimum duration of 10 minutes or until dry, whichever is longer.

**Disinfection frequency:** It is necessary to clean and disinfect Kangaroo OMNI™ Enteral Feeding Pump after each use when used for multiple patients. This is to prevent spreading bacteria, viruses, and other germs between patients interacting with the pump.

# Alarms & Troubleshooting

## LED Pump Alarm Indicator Lights

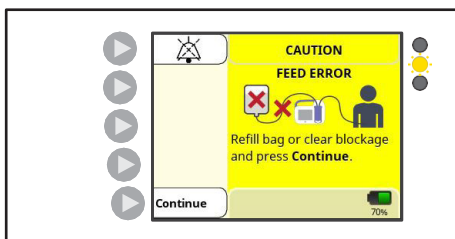


Kangaroo OMNI™ Enteral Feeding Pump status LED Indicator lights on the upper right of the pump screen provide a quick visual indication of Kangaroo OMNI™ Enteral Feeding Pump status.

- Solid Green = Pump Running
- Blinking Green = Ready
- Solid Yellow = Information
- Blinking Yellow = Notification
- Blinking Red = CRITICAL ALARM

See the information below for detailed descriptions of each warning. If an unexpected operation or event occurs while using Kangaroo OMNI™ Enteral Feeding Pump, please report any findings to Customer Service.

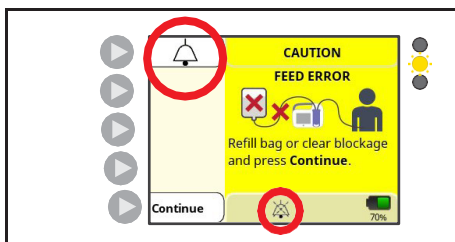
## Alarms



**WARNING: Ensure audio output opening is unobstructed during normal operation.**

All alarms are intended to be heard by operators within range of the alarm speaker. The speaker is located on the back of Kangaroo OMNI™ Enteral Feeding Pump, and is designed to be heard within the patient's room. The display and LED alarm indicators are intended to be seen by an operator facing the front of Kangaroo OMNI™ Enteral Feeding Pump.

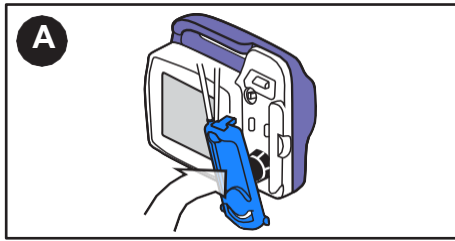
## How to Temporarily Silence the Alarm



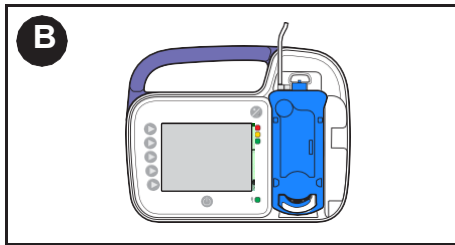
The alarms cannot be permanently silenced or muted. However, by pressing the Silence Alarm button, the alarm audio will be temporarily silenced for two minutes. After two minutes, the alarm audio will restart. To re-engage the audio alarm before the two minutes is up, press the Bell button. This will end the temporary audio pause, and restart the audible alarm.

# Alarms & Troubleshooting

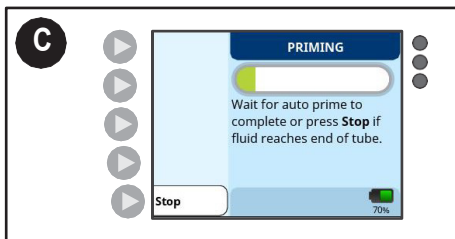
## Verifying Functionality of the Alarm System



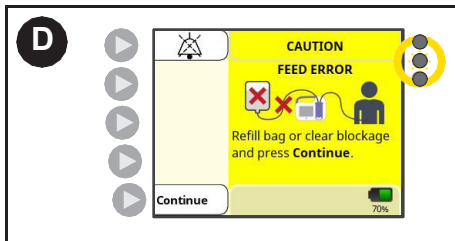
A. Load a new Kangaroo OMNI™ Feeding Set onto Kangaroo OMNI™ Enteral Feeding Pump.



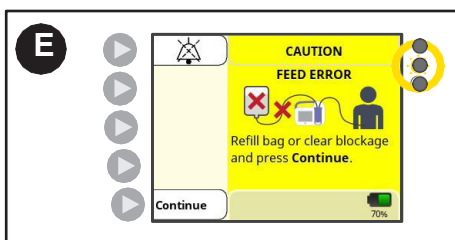
B. Leave the Kangaroo OMNI™ Feeding Set empty.



C. Run Auto Prime.



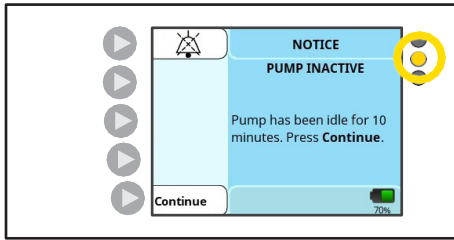
D. Upon priming, Kangaroo OMNI™ Enteral Feeding Pump will detect a Feed Error condition and alarm.



E. **Confirm** the audible alarm, color display, and colored LEDs all properly indicate a Feed Error condition.

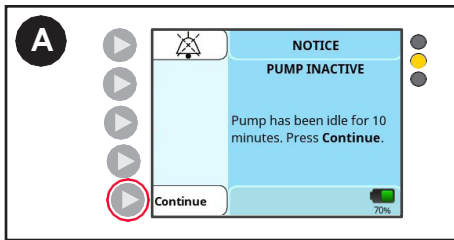
# Alarms & Troubleshooting

## Pump Inactive Alarm (Low Priority)



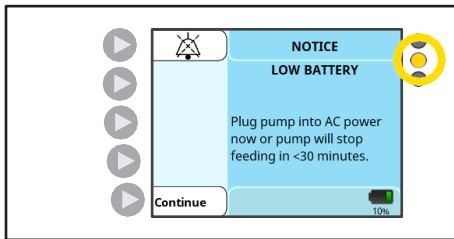
LED Pump Alarm Indicator Lights: Solid Yellow ●

PUMP INACTIVE error screen appears if Kangaroo OMNI™ Enteral Feeding Pump has been without input for more than 10 minutes.



A. Press **Continue** to return to the previous screen.

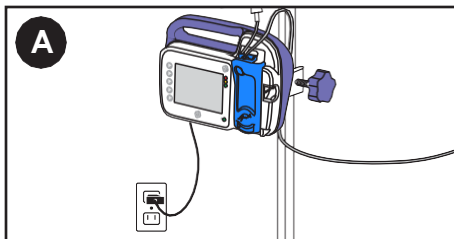
## Low Battery Alarm Notice (Low Priority)



LED Pump Alarm Indicator Lights: Solid Yellow ●

The LOW BATTERY alarm appears when approximately 30 minutes of battery life is remaining.

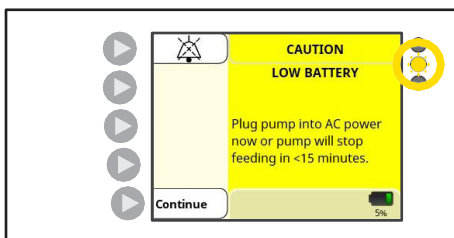
**Note:** Kangaroo OMNI™ Enteral Feeding Pump will continue to deliver fluid if this alarm occurs while feeding or flushing.



A. **Plug Kangaroo OMNI™ Enteral Feeding Pump into a wall outlet** for at least 12 hours to charge fully. Kangaroo OMNI™ Enteral Feeding Pump will automatically return to the screen that was active prior to the error and will continue to operate normally.

**Note:** If this alarm occurs while Kangaroo OMNI™ Enteral Feeding Pump is plugged in, ensure the power adapter plug is completely inserted into the power adapter port.

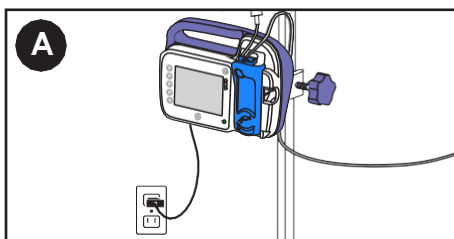
## Low Battery Caution Alarm (Medium Priority)



LED Pump Alarm Indicator Lights: Blinking Yellow ☀

The LOW BATTERY CAUTION alarm appears when approximately 15 minutes of battery life is remaining.

**Note:** Kangaroo OMNI™ Enteral Feeding Pump will continue to deliver fluid if this alarm occurs while feeding or flushing.

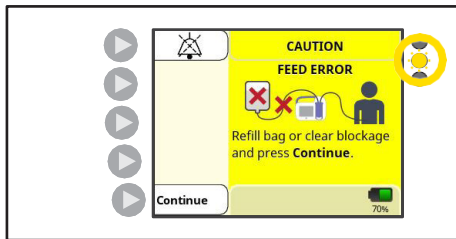


A. **Plug Kangaroo OMNI™ Enteral Feeding Pump into a wall outlet** for at least 12 hours to charge fully. Kangaroo OMNI™ Enteral Feeding Pump will automatically return to the screen that was active prior to the error and will continue to operate normally.

**Note:** If this alarm occurs while Kangaroo OMNI™ Enteral Feeding Pump is plugged in, ensure the power adapter plug is completely inserted into the power adapter port.

# Alarms & Troubleshooting

## Feed Error Alarm (Medium Priority)



### LED Pump Alarm Indicator Lights: Blinking Yellow

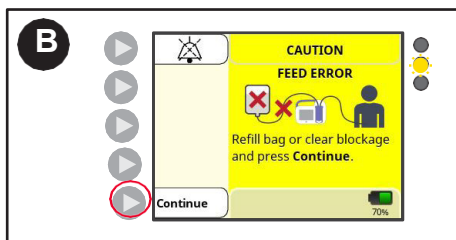
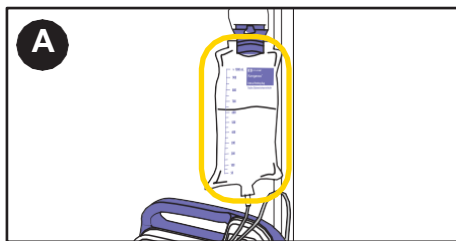
The FEED ERROR screen appears when the feed bag is empty or there is a clog, kink or excessive foam/bubbles in the tubing between the feed bag and the pump.

Detection of this alarm condition may take up to 40 minutes to occur at 1 mL/hr.

Detection of this alarm condition may take up to 5 minutes to occur at flow rates greater than 50 mL/hr.

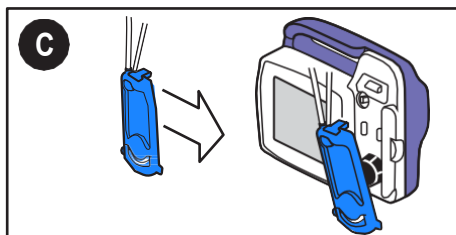
Sound Intensity of Alarm: minimum 45 dBA at 1 meter

A. If the enteral fluids bag is empty, **refill bag as necessary**.



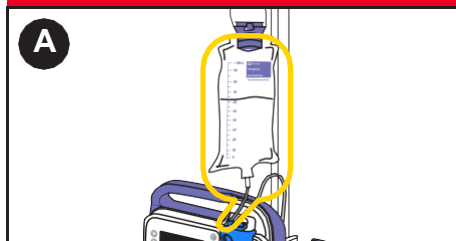
B. Press **Continue** and prime the pump to prepare for next feeding.

**WARNING:** Patient must not be connected to Kangaroo OMNI™ Enteral Feeding Pump when priming is performed.

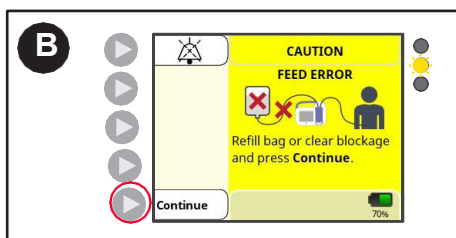


C. If alarm continues, **replace Kangaroo OMNI™ Feeding Set**.

**OR**

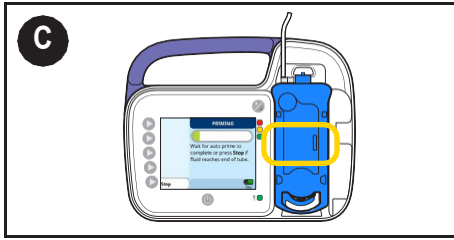


A. If the bag still contains feeding solution, check the bag and tubing for air bubbles or blockages.

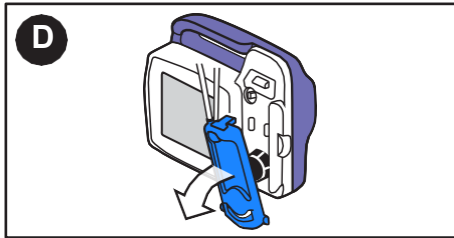


B. Press **Continue** and prime the pump to move the air bubbles or blockage through the tube. Disconnect patient from tubing before priming.

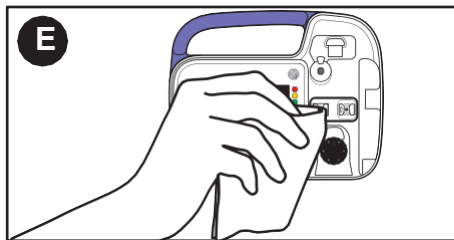
## Alarms & Troubleshooting



C. Once the air bubbles are out of the occlusion sensor region, restart feeding.



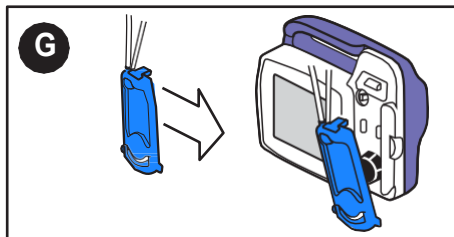
D. If alarm continues, **turn off pump** and **Remove** the cassette from Kangaroo OMNI™ Enteral Feeding Pump.



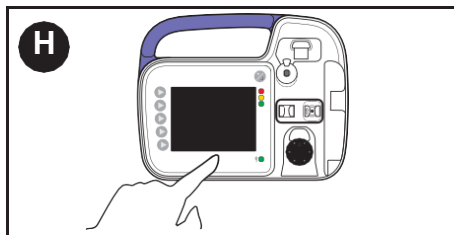
E. **Clean and dry** the Kangaroo OMNI™ Enteral Feeding Pump occlusion sensor region.



F. **Reload** the cassette.



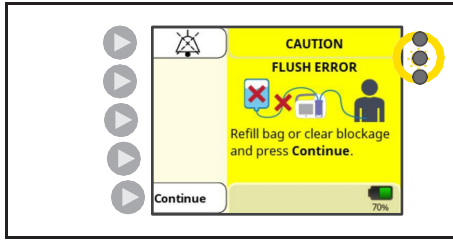
G. If alarm continues, **replace Kangaroo OMNI™ Feeding Set**.



H. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

# Alarms & Troubleshooting

## Flush Error Alarm (Medium Priority)

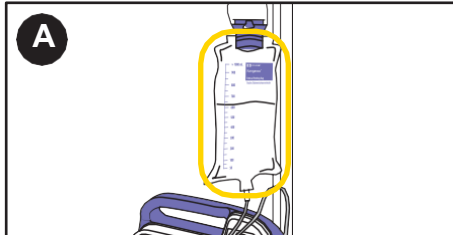


### LED Pump Alarm Indicator Lights: **Blinking Yellow**

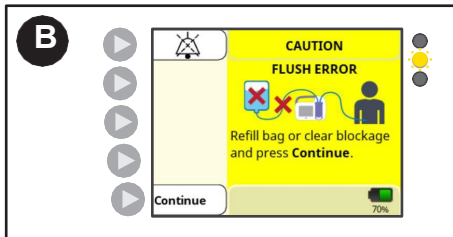
The FLUSH ERROR screen appears when the flush bag is empty or there is a clog or a kink in the tubing between the flush bag and the pump.

Detection of this alarm condition may take up to 1 minute to occur.

Sound Intensity of Alarm: minimum 45 dBA at 1 meter



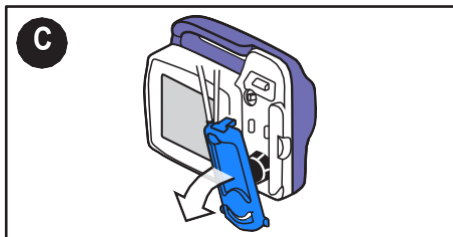
A. **Refill bag** as necessary.



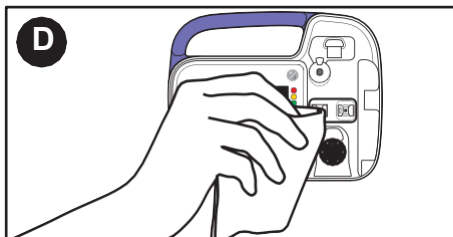
B. Press **Continue** and prime the pump to prepare for next flush. Disconnect patient from tubing before priming.

**Please note: Always** prime the flush tubing before the feed tubing when using Kangaroo OMNI™ Feed Sets with Flush Bags. Priming the flush tubing after priming the feed tubing will introduce air in the tubing after the feeding solution, which will require the feed tubing to be primed again to remove the air.

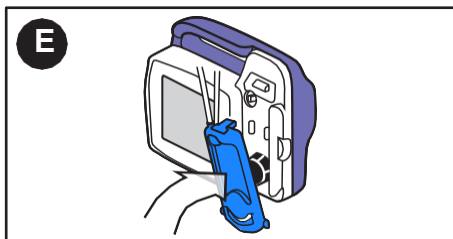
**OR**



C. If alarm continues, **turn off pump** and **Remove** the cassette from Kangaroo OMNI™ Enteral Feeding Pump.



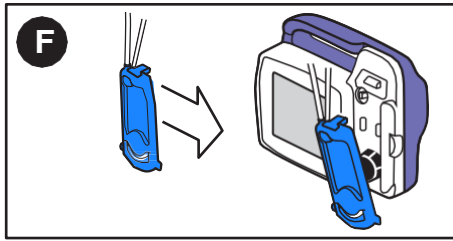
D. **Clean and dry** the Kangaroo OMNI™ Enteral Feeding Pump occlusion sensor region.



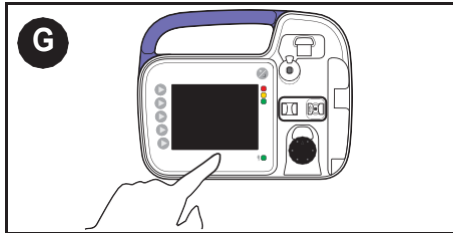
E. **Reload** the cassette.



# Alarms & Troubleshooting

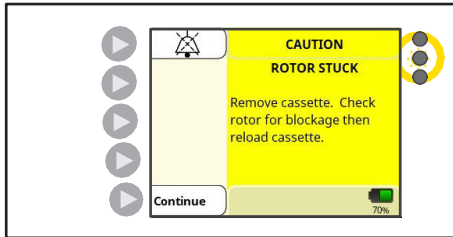


F. If alarm continues, **replace Kangaroo OMNI™ Feeding Set.**



G. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

## Rotor Stuck Alarm (Medium Priority)



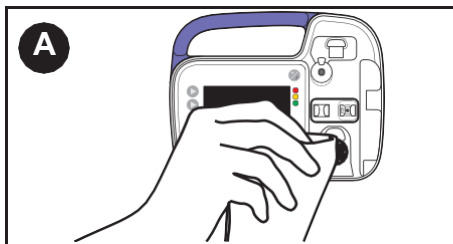
### LED Pump Alarm Indicator Lights: **Blinking Yellow**

The ROTOR STUCK alarm appears when Kangaroo OMNI™ Enteral Feeding Pump detects an unusual amount of resistance on the rotor, typically caused by enteral fluids or contaminant build-up.

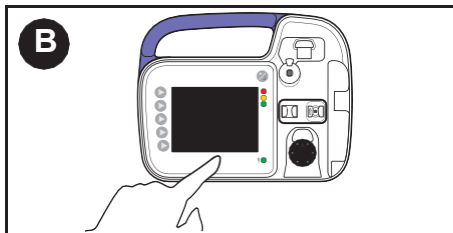
Detection of this alarm condition may take up to 2 minutes to occur.

Sound Intensity of Alarm: minimum 45 dBA at 1 meter

**WARNING: Do not** clean while plugged into an electrical outlet.



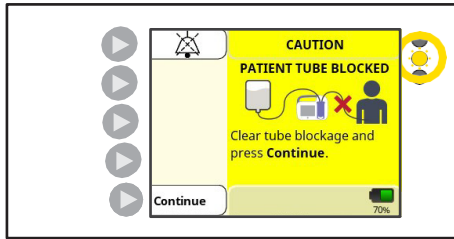
A. Clean the rotor by wiping it down with a wet cloth.



B. If alarm continues, press Power Off to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

# Alarms & Troubleshooting

## Patient Tube Blocked Alarm (Medium Priority)



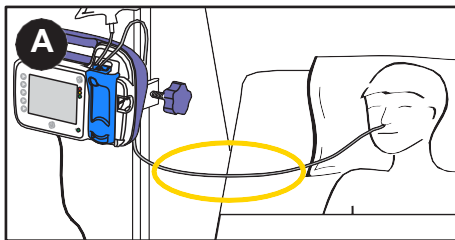
### Pump Status Indicator: **Blinking Yellow**

The PATIENT TUBE BLOCKED alarm appears when the feeding solution is no longer being delivered because of a clog between Kangaroo OMNI™ Enteral Feeding Pump and the patient.

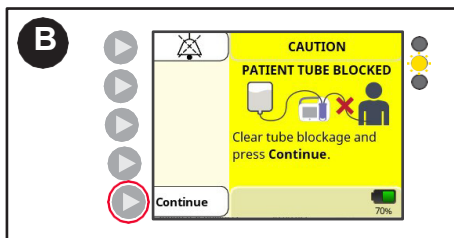
Detection of this alarm condition may take up to 40 minutes to occur at 1 mL/hr.

Detection of this alarm condition may take up to 3 minutes to occur at flow rates greater than 50 mL/hr.

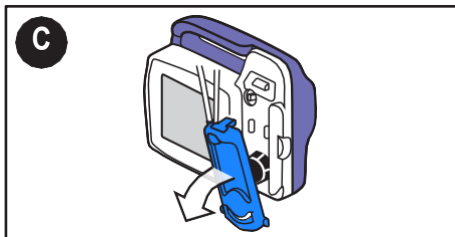
**WARNING: Do not** clean while plugged into an electrical outlet.



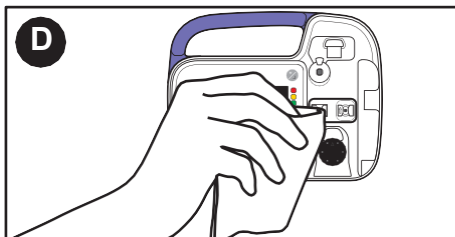
A. **Check tubing between Kangaroo OMNI™ Enteral Feeding Pump and patient** to locate the cause of the blockage and clear if possible.



B. Once blockage is cleared, press **Continue** and restart feeding.

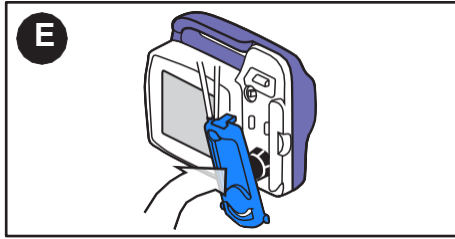


C. If alarm continues, **Remove** the cassette from Kangaroo OMNI™ Enteral Feeding Pump.

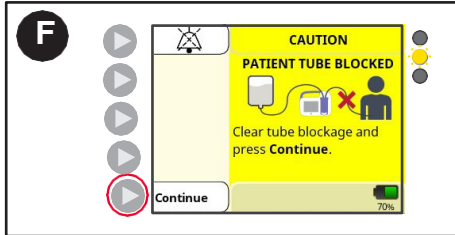


D. **Clean and dry** the Kangaroo OMNI™ Enteral Feeding Pump occlusion sensor region.

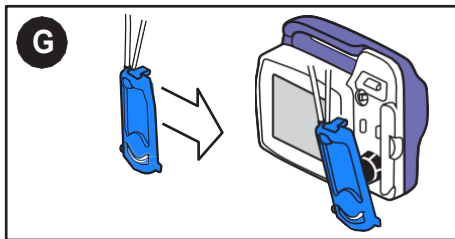
## Alarms & Troubleshooting



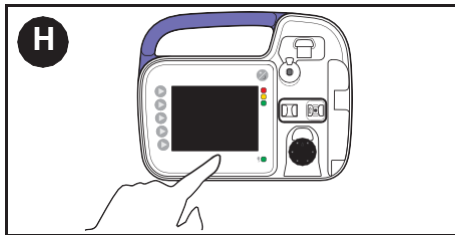
E. **Reload** the cassette.



F. Press **Continue** and restart feeding.



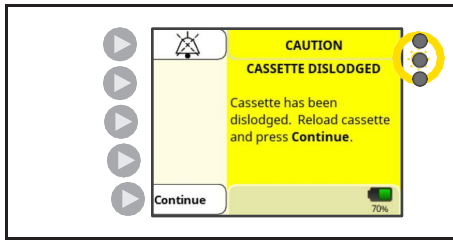
G. If alarm continues, **Replace** Kangaroo OMNI™ Feeding Set.



H. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

# Alarms & Troubleshooting

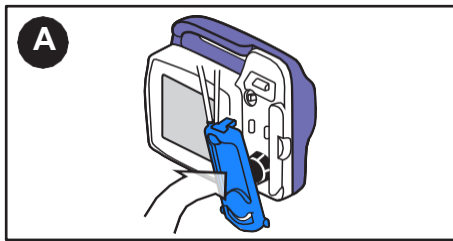
## Cassette Dislodged Alarm (Medium Priority)



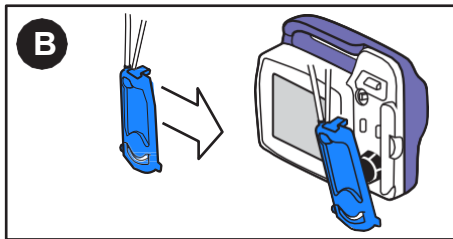
### Pump Status Indicator: Blinking Yellow

The CASSETTE DISLODGED alarm appears when the cassette is not properly loaded in Kangaroo OMNI™ Enteral Feeding Pump.

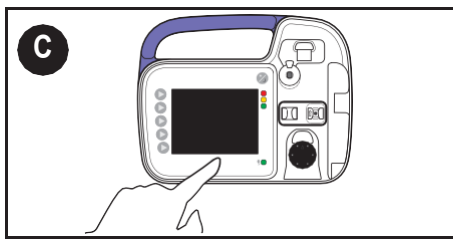
Detection of this alarm condition may take up to 1 second to occur at all flow rates.



A. **Reload cassette** and press continue.

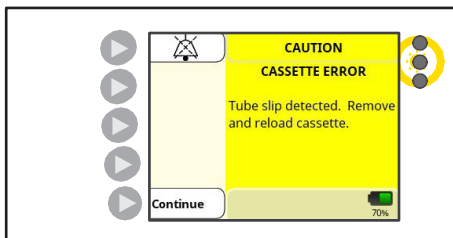


B. If alarm continues, **Replace** Kangaroo OMNI™ Feeding Set.



C. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

## Cassette Error Alarm (Medium Priority)

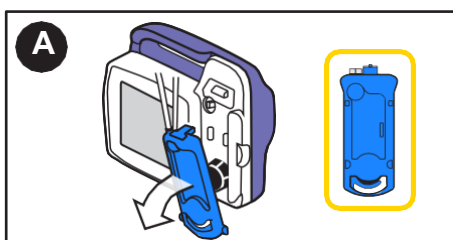


### Pump Status Indicator: Blinking Yellow

The CASSETTE ERROR alarm appears when Kangaroo OMNI™ Enteral Feeding Pump has detected an unusual operating condition.

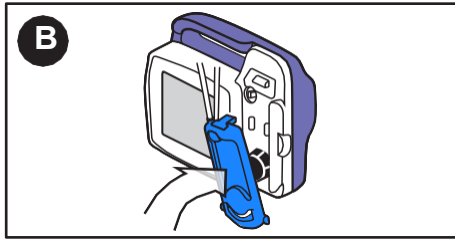
Detection of this alarm condition may take up to 31 minutes to occur at 1 mL/hr.

Detection of this alarm condition may take up to 1 minute to occur at flow rates greater than 50 mL/hr.s.

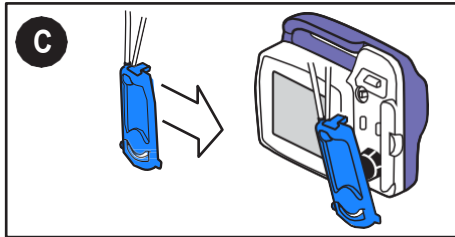


A. **Remove** the cassette and inspect it for irregularities.

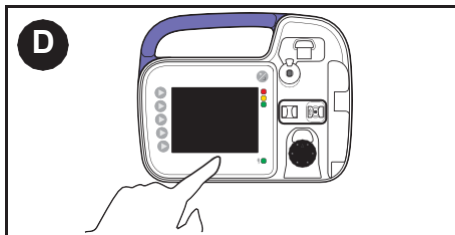
# Alarms & Troubleshooting



B. After correcting irregularities, **Reload** the cassette.

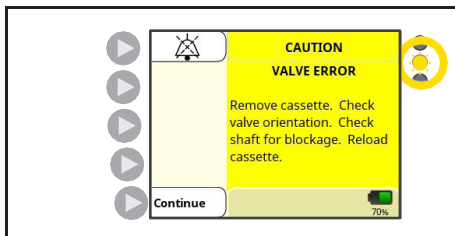


C. If alarm continues, **Replace** Kangaroo OMNI™ Feeding Set.



D. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

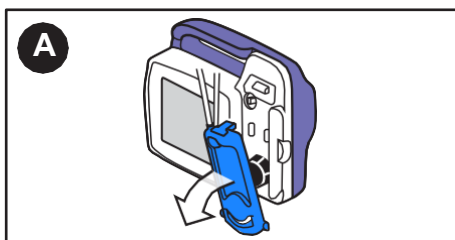
## Valve Error Alarm (Medium Priority)



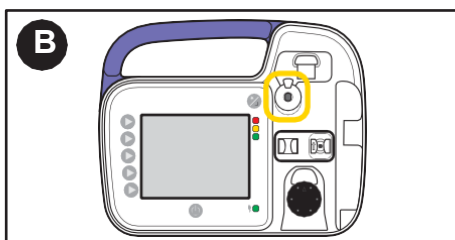
### Pump Status Indicator: Blinking Yellow

The VALVE ERROR alarm appears when Kangaroo OMNI™ Enteral Feeding Pump detects an unusual amount of resistance on the valve actuator or the valve actuator is not correctly oriented.

Detection of this alarm condition may take up to 10 seconds.

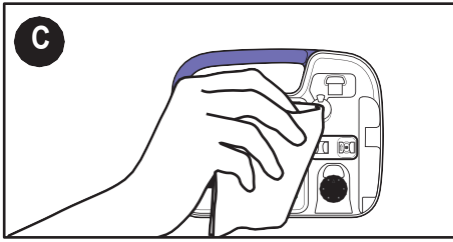


A. **Remove** the cassette.

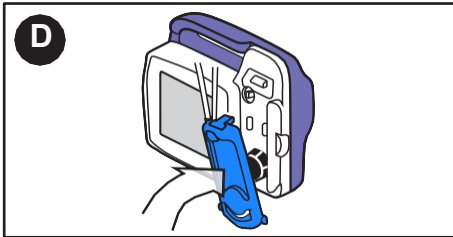


B. **Check** the valve actuator for blockages and **confirm** the valve actuator is correctly oriented.

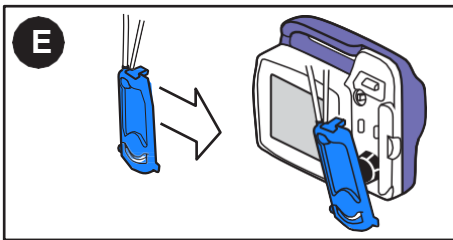
# Alarms & Troubleshooting



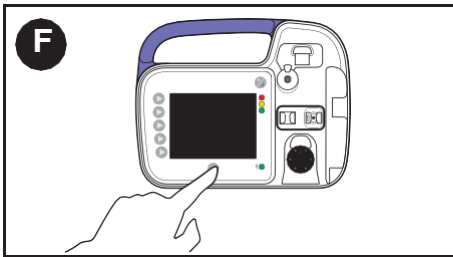
C. **Clean and dry** the Kangaroo OMNI™ Enteral Feeding Pump valve actuator.



D. **Reload** the cassette.

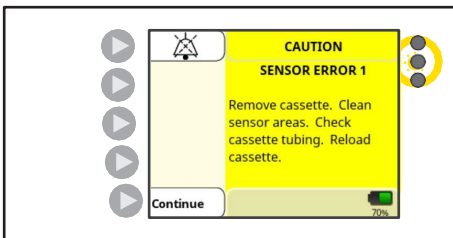


E. If alarm continues, **Replace** Kangaroo OMNI™ Feeding Set.



F. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

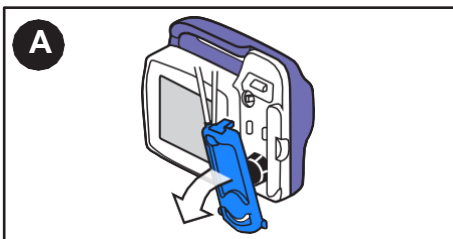
## Sensor Error 1 Alarm (Medium Priority)



### Pump Status Indicator: Blinking Yellow

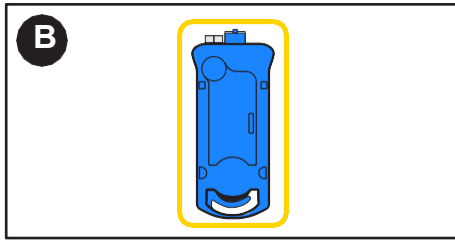
The SENSOR ERROR 1 alarm appears when Kangaroo OMNI™ Enteral Feeding Pump detects an issue with the occlusion detection sensor.

Detection of the Sensor Error 1 alarm condition pertaining to the ultrasonic sensor may take up to 10 minutes to occur. The pump is designed to detect degradation of sensors. If sensors degrade below acceptable levels, a Sensor Error will result.

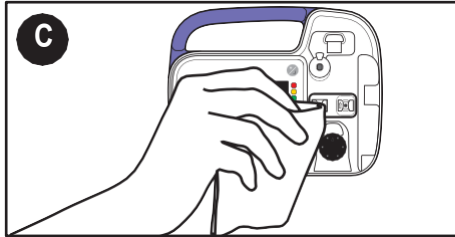


A. **Remove** the cassette.

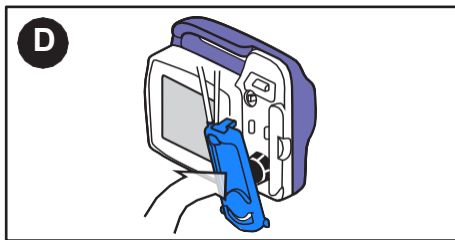
## Alarms & Troubleshooting



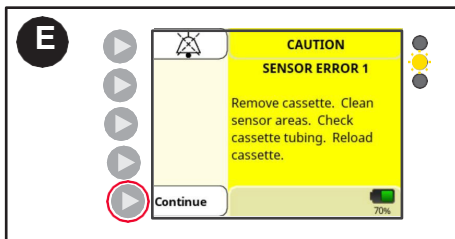
B. **Check** the tubing inside the cassette to ensure that it is free from lint or other debris.



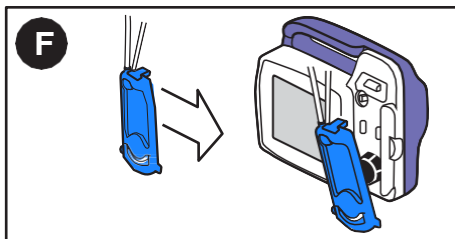
C. **Clean and dry** the Kangaroo OMNI™ Enteral Feeding Pump occlusion sensor region. For excessive cleaning needs, avoid use of sharp objects during the cleaning process. Use of a soft bristle brush for example may be used.



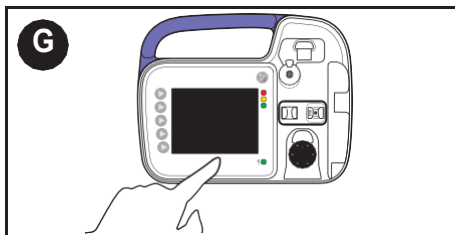
D. **Reload** the cassette.



E. Press **Continue** and restart feeding.



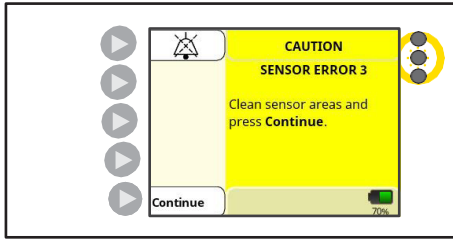
F. If alarm continues, **Replace** Kangaroo OMNI™ Feeding Set.



G. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

# Alarms & Troubleshooting

## Sensor Error 2 or 3 Alarm (Medium Priority)

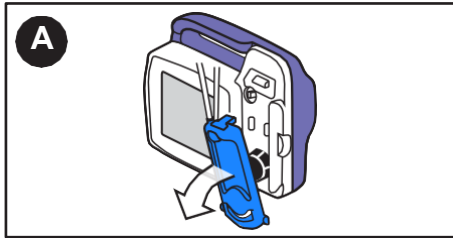


### Pump Status Indicator: Blinking Yellow

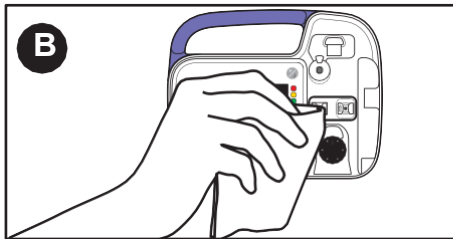
The SENSOR ERROR 2 or 3 alarm appears when Kangaroo OMNI™ Enteral Feeding Pump detects an issue with its force sensor.

Detection of this alarm condition will occur immediately on power up or cassette removal.

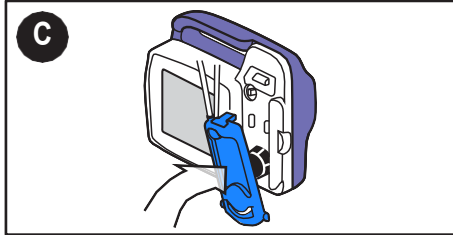
The Kangaroo OMNI™ pump is designed to detect degradation of sensors. If sensors degrade below acceptable levels, a Sensor Error will result.



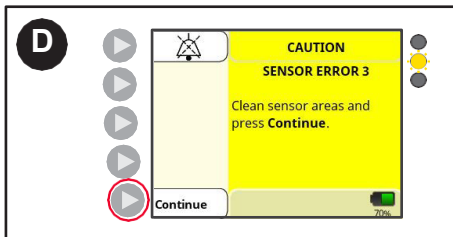
A. **Remove** the cassette.



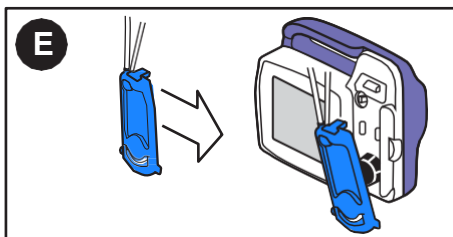
B. **Clean and dry** the Kangaroo OMNI™ Enteral Feeding Pump occlusion sensor region.



C. **Reload** the cassette.



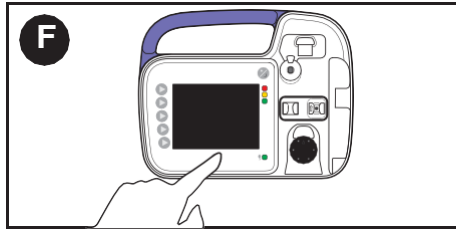
D. Press **Continue** and restart feeding.



E. If alarm continues, **Replace** Kangaroo OMNI™ Feeding Set.

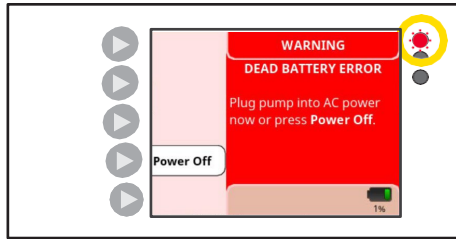


# Alarms & Troubleshooting



- F. If alarm continues after replacing Kangaroo OMNI™ Feeding Set, press **Power Off** to stop operation and use a different Kangaroo OMNI™ Enteral Feeding Pump.

## Dead Battery Error Alarm (High Priority)

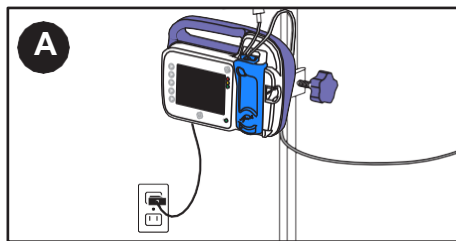


**Pump Status Indicator: Blinking Red** 

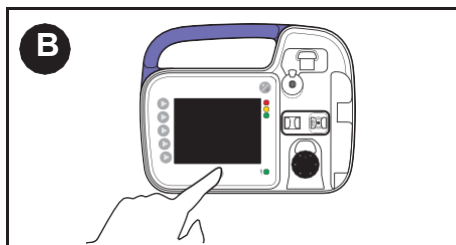
A DEAD BATTERY WARNING will appear when failure of the battery is imminent.

Detection of this alarm condition may take up to 20 minutes to occur under normal operating conditions.

**Note:** Kangaroo OMNI™ Enteral Feeding Pump will stop delivering fluid if this alarm occurs while feeding or flushing.

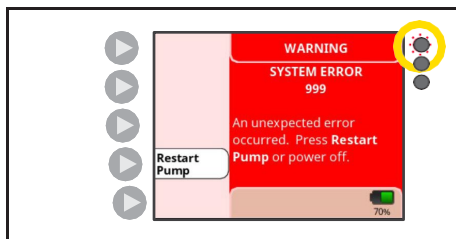


- A. **Plug Kangaroo OMNI™ Enteral Feeding Pump into a wall outlet immediately.**



- B. Pump operation will need to be restarted.

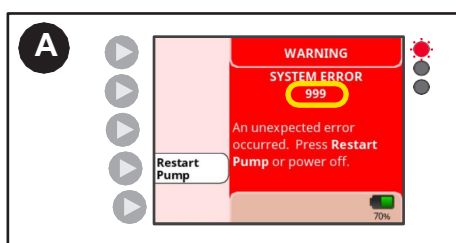
## System Error Alarm (High Priority)



**Pump Status Indicator: Blinking Red** 

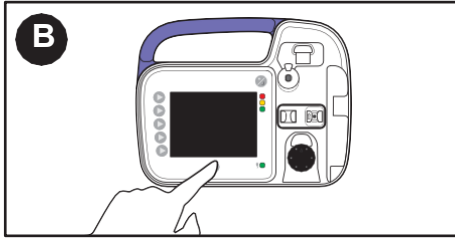
The SYSTEM ERROR appears when there is a general error in the system.

Detection of this alarm condition may take up to 1 minute to occur under normal operating conditions. Restart the feeding pump as directed on the screen.



- A. If error persists **after** pump is turned off and back on, document the number code on the screen and call Customer Service.

## Alarms & Troubleshooting



B. Press **Power OFF**.

C. **Contact Customer Service** and provide the three number code displayed on the screen.