

CADD-Solis™ Infusion System

CADD-Solis VIP™ Ambulatory Pump

Intermittent Mode

Programming a New Patient



1. To start programming, select **Tasks**.
2. Press **▼** to highlight **View Advanced Tasks** + **select**.



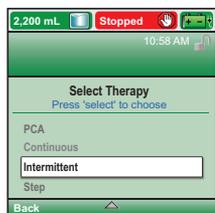
3. Using the **▼** key, highlight **Start New Patient** + **select**. Then select **Continue**.



4. Enter the 3-digit security code using **▼** or **▲** keys + **select**.

5. Using the **▼** or **▲** keys, highlight **Intermittent** + **select**. Highlight **[Manual Progr]** or protocol qualifier if existing + **select**. If protocol, highlight drug name + **select**.

6. Select **Yes** to confirm selection. Select **Review** to **Review Pump Settings**.



7. Next, adjust all of the settings. Highlight a setting, press **select** then **▼** or **▲** then select **Save**.

Dose Volume: Dose volume to be delivered
 Dose Duration: Time required to deliver a dose.
 Dose Cycle: Time from the start of one dose to the start of the next dose.
 Next Dose: Indicates the time at which the next dose will start.



8. Confirm values by selecting **Accept Value**, the symbol **✓** appears on the left + **Next**.

9. Remove the blue clip and attach the administration set or the cassette. The pump will show the next steps to follow until pump start.

10. Start the pump.

Quick Change of Disposable

Same Infusion Volume, Same Programming



1. Turn on the pump.
2. Remove the blue clip and attach the new disposable to the pump.
3. The pump displays the question **Reset reservoir volume to XX mL?** Select **YES** to confirm.
4. The screen displays **Prime tubing?** Select **YES** to prime using the pump. Select **No** if tubing was pre-primed.
5. Enter the 3-digit security code. Press  or  + **select** if needed.
6. Follow the instruction to prime the tubing.
7. Start the pump.



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Alarm Resolution for Patient

Indicator Lights: When the pump is powered **ON**, one or both of the indicator lights flash.

Green: The green light flashes to indicate that the pump is running and delivering fluid as programmed.

Amber: The amber light flashes when the pump is stopped, an alarm condition exists, or the battery or the reservoir volume is low. It stays **ON** continuously when the pump is inoperable. The display briefly describes the alarm condition when the amber light is flashing.

NOTE: At times both lights may flash. This indicates that the pump is running, but there is a condition the clinician should be aware of (for example, low battery or low reservoir volume).

Additional information may be displayed when certain alarms occur. The help screens describe what you can do to try to solve the current problem that is causing the alarm.

TAKE THE FOLLOWING ACTION:

ALARM/MESSAGE	POSSIBLE SOLUTION
BATTERY LOW Replace Battery (Cause – the pump has detected that the battery power is low)	<ul style="list-style-type: none"> > Select 'Acknowledge' to clear the alarm or it will automatically clear after five seconds > Replace the four AA batteries soon > Turn the pump ON > Press 'Acknowledge' when alarm message appears > Press 'Start'
BATTERY DEPLETED Pump Stopped (Cause – the pump has detected that battery has depleted completely)	<ul style="list-style-type: none"> > Select 'Acknowledge' to clear the alarm or it will automatically clear after five seconds > Replace the four AA batteries > Turn the pump ON > Press 'Acknowledge' when alarm message appears > Press 'Start'
DOWNSTREAM OCCLUSION Clear occlusion between pump and patient (Cause – the pump is detecting high pressure which is resulting from a downstream blockage, kink in the fluid path, or a closed tubing clamp. Delivery is paused and resumes if the occlusion is removed)	<ul style="list-style-type: none"> > Press 'Silence' > Check the IV line between the cassette and the IV site > Remove any obstruction (clamps, kinks etc.) > Delivery will resume if occlusion is removed > Check the pump has resumed medication delivery (and green light is flashing) > Check and notify nursing staff if there is any pain or swelling around the IV site
UPSTREAM OCCLUSION Clear occlusion between pump and patient (Cause – fluid is not flowing from the fluid container to the pump, which may be due to a kink, closed clamp, or air bubble in the tubing between the fluid container and the pump. Delivery is paused and will resume if the occlusion is removed)	<ul style="list-style-type: none"> > Press 'Silence' > Check between the reservoir (IV bag or cassette) and the pump. > Remove any obstruction (clamps, kinks etc.) > Delivery will resume if occlusion is cleared > Check if the pump has resumed medication delivery (and green light is flashing)
RESERVOIR VOLUME LOW (Cause – the fluid level in the reservoir container is low)	<ul style="list-style-type: none"> > Press 'Acknowledge' to clear the alarm
RESERVOIR VOLUME IS ZERO Pump Stopped (Cause – the reservoir volume is empty)	<ul style="list-style-type: none"> > Press 'Acknowledge' to clear the alarm > Turn 'Off' the pump > Contact nursing staff if necessary
AIR IN LINE DETECTED (Cause – there is air in the line)	<ul style="list-style-type: none"> > Press 'Silence' > Contact nursing staff for further instructions



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Alarm Help Screens

When certain alarms occur, additional information may be displayed on the screen. The help screens describe what you can do to try to solve the problem that is causing the alarm.

STEPS:

1. When an alarm occurs, press **SILENCE** to quiet the alarm.
2. If help screens are available for the alarm, “Help” appears above the right soft key. To view the help screens, select **HELP**.
3. Follow the applicable instructions provided on the help screen and address the issue causing the alarm. To page through all of the available help screens, press **NEXT** repeatedly. Press **ACKNOWLEDGE** at any time to exit Help.
4. “**RETRY HELP**” appears when no additional help steps are available. To page through the help screens again, press **RETRY HELP**. The alarm screen reappears as in Step 2 above. Repeat steps 2 and 3. When the alarm clears, the help screen will no longer be displayed.

The Following Alarms Have Associated Help Screens. Refer to Steps Above to Navigate the Help Screens.

Cannot Start Pump Without a Latched Cassette

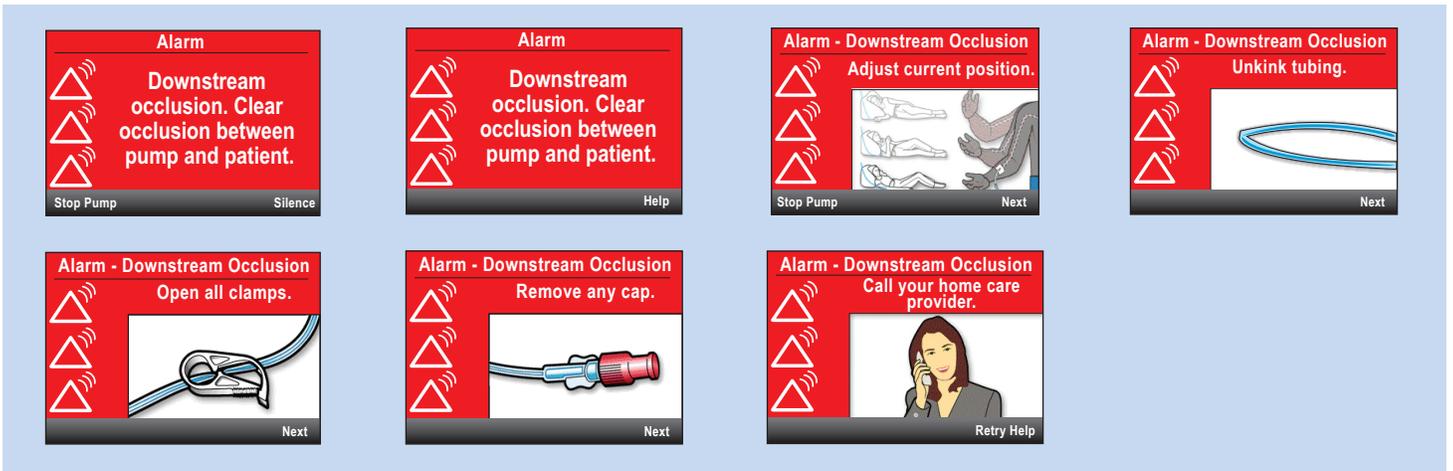
The first screen shows the alarm message and two soft keys: Acknowledge and Help. The second screen shows the alarm message and two soft keys: Acknowledge and Silence. The third screen shows the alarm message, an illustration of hands latching a cassette, and two soft keys: Acknowledge and Next. The fourth screen shows the alarm message, an illustration of a woman on a phone, and two soft keys: Acknowledge and Retry Help.

Upstream Occlusion. Clear Occlusion Between Pump and Reservoir.

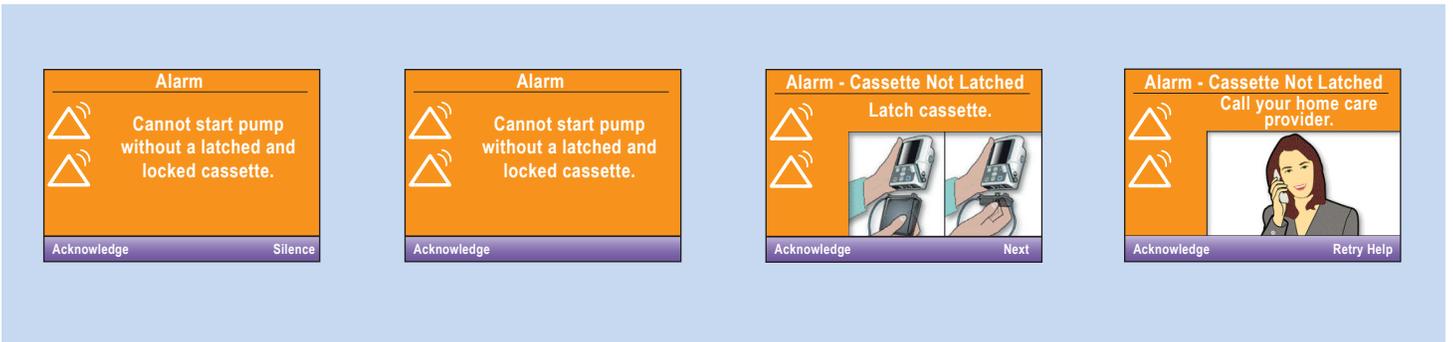
The first screen shows the alarm message and three soft keys: Stop Pump and Help. The second screen shows the alarm message and three soft keys: Stop Pump and Silence. The third screen shows the alarm message, an illustration of a spike being inserted, and three soft keys: Stop Pump and Next. The fourth screen shows the alarm message, an illustration of tubing, and three soft keys: Stop Pump and Next. The fifth screen shows the alarm message, an illustration of a pump and reservoir, and three soft keys: Stop Pump and Next. The sixth screen shows the alarm message, an illustration of a woman on a phone, and three soft keys: Stop Pump and Retry Help.

The following alarms have associated help screens. Refer to steps to navigate the help screens

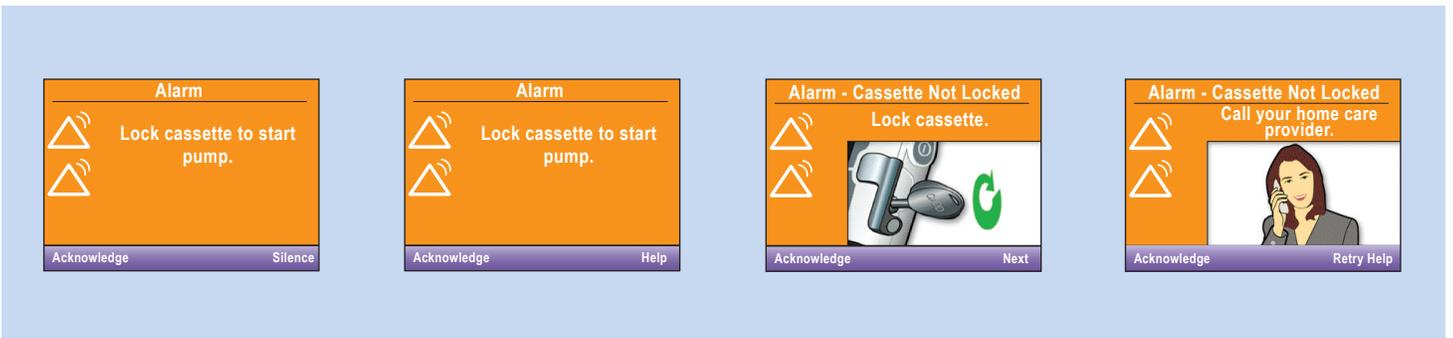
Downstream occlusion. Clear occlusion between pump and patient.



Cannot start pump without a latched and locked cassette. (PCA only)



Lock cassette to start pump. (PCA only)



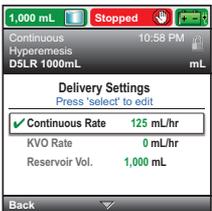
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Continuous Mode

Programming a New Patient



1. To start programming, select **Tasks**.
2. Press **▼** to highlight **View Advanced Tasks** + **select**.
3. Using the **▼** key, highlight **Start New Patient** + **select**. Then select **Continue**.
4. Enter the 3-digit security code **▼** or **▲** + **select**.
5. Using the **▼** or **▲** keys, highlight **Continuous** + **select**. Highlight **[Manual Progr]** or protocol qualifier if existing + **select**. If protocol, highlight drug name + **select**.
6. Select **Yes** to confirm selection. Select **Review** to **Review Pump Settings**.
7. Next, adjust all of the settings. Highlight a setting, press **select** then **▼** or **▲** then select **Save**.
8. Confirm values by selecting **Accept Value**, the symbol **✓** appears on the left + **Next**.
9. Remove the blue clip and attach the administration set or the cassette. The pump will show the next steps to follow until pump start.
10. Start the pump.



Quick Change of Disposable

Same Infusion Volume, Same Programming



1. Turn on the pump.
2. Remove the blue clip and attach the new disposable to the pump.
3. The pump displays the question **Reset reservoir volume to XX mL?** Select **YES** to confirm.
4. The screen displays **Prime tubing?** Select **YES** to prime using the pump. Select **No** if tubing was pre-primed.
5. Enter the 3-digit security code. Press  or  +  if needed.
6. Follow the instruction to prime the tubing.
7. Start the pump.

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PCA Mode

Programming a New Patient



1. To start programming, select **Tasks**.
2. Press **▼** to highlight **View Advanced Tasks** + **select**.
3. Using the **▼** key, highlight **Start New Patient** + **select**. Then select **Continue**.



4. Enter the 3-digit security code using **▼** or **▲** keys + **select**.
5. Using the **▼** or **▲** keys, highlight **PCA** + **select**. Highlight **[Program Manually]** or protocol qualifier if existing + select. If protocol, highlight drug name + **select**. If Program Manually, highlight unit (mL, Mg, mcg) + **select**; enter Concentration value + **select**.



6. Select **Yes** to confirm selection. Select **Review** to **Review Pump Settings**.



7. Next, adjust all of the settings. Highlight a setting, press **select** then **▼** or **▲** then select **Save**.

If a Delivery Limit or Max Doses/Hour is required and not available in the parameter list, select View Advanced Tasks then Delivery Hard and Soft Limits then Delivery Limit Method.



8. Confirm values by selecting **Accept Value**, the symbol **✓** appears on the left + **Next**.
9. Remove the blue clip and attach the administration set or the cassette. The pump will show the next steps to follow until pump start.
10. Start the pump.

Quick Change of Disposable

Same Infusion Volume, Same Programming



1. Remove the blue clip and attach the new disposable.
2. The pump displays the question **Reset reservoir volume to XX mL?** Press **YES** to confirm.
3. The screen displays **Prime tubing?** Select **YES** (if needed).
4. Enter the 3-digit security code. Press **▼** or **▲** + **select** if needed.
5. Follow the instruction to prime the tubing.
6. Start the pump.