#### **ALARMS & TROUBLESHOOTING**

The CADD-Legacy® PCA pump signals with audible alarms and messages that appear on the display when a condition requires your attention.		
<b>Res Vol Low</b> <i>≙</i> Three beeps	Level of fluid in the reservoir is low. Prepare to install new reservoir.	
Reservoir Volume Empty ≙Two-tone alarm	Reservoir volume has reached 0.0 ml. Press NEXT or STOP/START to silence alarm. Install a new reservoir, if appropriate.	
Low Bat ♀3 two-tone beeps every five minutes	Batteries are low, but pump is operable. Change batteries soon.	
Battery Depleted <i>⇔Two-tone alarm</i>	Batteries are depleted and cannot operate	
Battery Removed Pump Won't Run ≙Two-tone alarm	With AC adapter attached, batteries have been removed while pump was running, or you have tried to start pump with depleted batteries. Install new batteries.	
<b>High Pressure</b> <i>≙Two-tone alarm</i>	High pressure is being caused by an occlusion in the fluid path between the pump and the patient. Remove the obstruction to resume operation. Or press STOP/START or NEXT to stop the pump and silence the alarm for two minutes, then remove occlusion and restart pump.	
Upstream Occlusion <i>⇔Two-tone alarm</i>	Fluid is not flowing from the reservoir to the pump. Check for a kink or air bubble in the tubing between the reservoir and pump. Remove the occlusion to resume operation. Press STOP/START or NEXT to stop the pump and silence alarm for two minutes, then remove the occlusion and restart the pump.	
Screen Displays Current Pump Status #Two-beep (long-short) alarm	The cassette is not aligned with the pump, or is damaged, or a malfunction of the pump sensor(s) is occurring. Reposition the pump to silence the alarm. If repositioning the pump does not silence the alarm within two minutes, the pump will display "No Disposable, Clamp Tubing."	
Air In Line Detected ≙Two-tone alarm	Air in fluid path. Press NEXT or STOP/ START to silence alarm. Make sure tubing is threaded in air detector properly. If the fluid path contains air, close clamps, disconnect from patient and prime fluid path.	
<b>Stopped</b> <i>AThree beeps</i> <i>every five minutes</i>	Pump is stopped. Start pump, if appropriate.	
Remote Dose Cord Removed ATwo beeps when pump stopped, two-tone alarm when pump is running	Remote dose cord removed while pump was running.	
Programming Incomplete A Two-tone alarm when starting pump	Verify all programming screens by pressing ENTER/CLEAR before moving to next screen or starting pump.	

#### ALARMS & TROUBLESHOOTING CONTINUED

Value Not Saved	A value was not saved by pressing ENTER/CLEAR. Press NEXT to resume programming.
<b>Error</b> <i>≑Two-tone alarm</i>	An error has occurred. Remove pump from service.
No Message Displayed <i>⇔Two-tone alarm</i>	The pump was running when batteries were removed or the batteries were removed within 15 seconds after stopping the pump. Batteries must be reinstalled.
	IMPORTANT: Always stop pump before removing batteries.
No Disposable, Clamp Tubing ∻ Two beep (long-short) alarm	IMPORTANT: Always stop pump before removing batteries. The disposable was removed, or the cassette is not aligned with the pump or is damaged, or a malfunction of the pump sensor(s) is occurring. Clamp the tubing immediately. Press STOP/START or NEXT to silence the alarm.

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## **CADD-Legacy® PCA**

Infusion Pump Model 6300

# Quick Reference Card for Clinicians Lock Level 0 (LL0)



A Display shows programmed values and messages

- **B** AC Adapter Jack used to plug in AC Adapter
- C Accessory Jack used to plug in Remote Dose Cord
- **D** Indicator Light indicates AC power in use
- E Air Detector
- F Cassette (part of reservoir or administration set that attaches to pump)
- G Threaded Mounting Hole for use with Polemount Bracket Adapter (back of pump)
- **H** Battery Compartment (back of pump)
- I Cassette Latch attaches cassette to pump (side of pump)

#### KEYPAD

STOP/START	Stops and starts the infusion
ENTER/CLEAR	Enters or clears displayed value
PRIME	Fills tubing with fluid
LOCK	Displays or changes Lock Level (security level)
NEXT	Advances to next programming screen
	Increases or decreases displayed values or scrolls through menu items
ON/OFF	Turns the pump on or off (low power)
DOSE	Delivers demand dose

Read the entire Operator's Manual before operating the CADD-Legacy® ambulatory infusion pump. Failure to properly follow warnings, cautions and instructions could result in death or serious injury to the patient.

WARNING: This Quick Reference Card should be used by clinicians only. Do not permit patients to have access to this card, as the information would allow access to all programming and operating functions. Assistance with the CADD-Legacy® PCA pump is available to clinicians 24-hours-a-day by calling 1-800-258-5361.

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CADD

PROGRAMM Batterios	ING / SET-UP SEQUENCE
NOTE: Value No CLEAR is not pr	it Saved is displayed if a value is scrolled and ENTER/ ressed. Press NEXT to continue programming.
Warning: If the not use a pump	pump is dropped or hit, inspect it for damage. Do o that is damaged or is not functioning properly.
Main Screen	Press NEXT.
Enter Reservoir Volume	<ol> <li>Press Or to select desired Reservoir Volume.</li> <li>Press ENTER/CLEAR.</li> <li>Press NEXT.</li> </ol>
Enter Units	<ol> <li>Press ▲ or ▼ to select desired units.</li> <li>Press ENTER/CLEAR.</li> <li>Press NEXT.</li> </ol>
Enter Concentration	NOTE: This screen does not appear if programming in milliliters.
	<ol> <li>Press ▲ or ♥ to select desired Concentration.</li> <li>Press ENTER/CLEAR.</li> <li>Press NEXT.</li> </ol>
Enter Continuous Rate	<ol> <li>Press  or  to select desired Continuous Rate (select the upper limit if the program will be adjusted in LL1).</li> <li>Press ENTER/CLEAR.</li> <li>Press NEXT.</li> <li>WARNING: This pump delivers medication at a constant rate and/or allows delivery of a bolus dose at a specified time interval. Programming the pump at a delivery rate other than what is prescribed will cause over or under delivery of medication.</li> </ol>
Enter Demand Dose	<ol> <li>Press or to select desired Demand Dose (select the upper limit if program will be adjusted in LL1).</li> <li>Press ENTER/CLEAR.</li> <li>Press NEXT.</li> </ol>
*Enter Dose Lockout	<ul> <li>WARNING: When you enter a new value, any lockout time in effect will be cleared. A demand dose could be requested immediately upon starting the pump, resulting in over-delivery.</li> <li>16. Press  ▲ or ♥ to select desired Demand Dose Lockout.</li> <li>17. Press ENTER/CLEAR.</li> <li>18. Press NEXT.</li> </ul>
Enter Doses Per Hour	NOTE: This screen will only appear if you have programmed a demand dose and dose lockout is less than 1 hour. 19. Press Arrow to select desired Doses Per Hour. 20. Press ENTER/CLEAR.
*Clear Doses Given	<ul> <li>21. Press NEXT.</li> <li>22. Press ENTER/CLEAR to clear the value for the number of doses given. The display will show 0.</li> <li>23. Press NEXT.</li> </ul>
*Clear Doses Attempted	<ol> <li>Press ENTER/CLEAR to clear the value for the number of doses attempted by the patient. The display will show 0.</li> <li>Press NEXT.</li> </ol>
Clear Given (ml, mg, mcg)	<ol> <li>Press ENTER/CLEAR to clear the given value. The display will show 0.00.</li> <li>Press NEXT.</li> </ol>
Verify Air	28.Verify the setting is correct. (To change setting,

in LLO): Decrease 33. Change lock level to LL1. 34. Press NEXT to go to Continuous Rate or Continuous Rate and/or Demand Dose Demand Dose screen. 35. Press 👽 to select desired starting value. 36. Press ENTER/CLEAR. PUMP OPERATIONS Change 1. Stop the pump. the 2. Press LOCK. 3. Press 🛆 or 👽 until desired lock level appears. Lock Level 4. Press LOCK or ENTER/CLEAR. 5. Press A or v until the lock level code appears. 6. Press LOCK or ENTER/CLEAR. Stop the 1. Press and hold STOP/START until [----] appears on the display. Pump 2. Release STOP/START key. STOPPED will appear on the display when the pump is stopped. 1. Press and hold STOP/START until Start the [----] disappears from the display. Pump 2. Release STOP/START key. RUN will appear on the display when the pump is running. Pump must be stopped and in LLO or LL1. Prime WARNING: Do not prime the fluid path with the tubing the connected to a patient as this could result in over Fluid delivery of medication or air embolism. Path 1. Press and hold PRIME until the word PRIME appears 2. Release the PRIME key. 3. Press and hold PRIME until priming appears on the screen. Continue priming until the fluid path is free of air. 4. Press NEXT to return to the main screen. 1. Stop the pump. Reset 2. Press NEXT to display the Reservoir Volume screen. the **Reservoir** 3. Press ENTER/CLEAR to reset the value to previously Volume programmed amount. 1. Press and hold ON/OFF until pump beeps and Turn the Pump On powers up. 1. Press and hold ON/OFF until (•••• •••• ••••) Turn the Pump Off appears on the display. 2. Release ON/OFF key. 3. The screen will go blank as the pump goes into a lower power state. 1. Stop the pump. Change 2. Push down and hold the arrow button on the battery the Batteries door while sliding the door off. Remove and discard old batteries. IMPORTANT: Always stop pump before removing batteries. 3. Install new batteries, matching polarities shown on the pump. Replace battery door and close. 4. Start the pump. WARNING: If a gap is present anywhere between the battery door and the pump housing, the door is not properly latched. If the battery door becomes detached or loose, the batteries will not be properly secured which could result in loss of power or non-delivery of medication. WARNING: Do not use rechargeable NiCad or nickel metal hydride (NiMH) batteries. Do not use carbon zinc ("heavy duty") batteries.

PROGRAMMING / SET-UP SEQUENCE CONTINUED

Verify Programming 32. Press NEXT repeatedly to review program.

31. Press NEXT.

Verify Upstream

Sensor Status

To Operate

in LL1 with

Upper Limits,

30. Verify the setting is correct. (To change

If pump will be operated in LL1 to allow

adjustment of Continuous Rate and/or

Demand Dose (up to the maximum entered

setting, see Biomed Functions section.)

Functions	Pump must be stopped and in LLO. 1. Press LOCK.
To Access	<ol> <li>Press LOCK or ENTER/CLEAR.</li> <li>Press ▲ or ♥ until the biomed code appears.</li> <li>Press LOCK or ENTER/CLEAR.</li> <li>Press NEXT to go through settings.</li> <li>Press NEXT until AIR DETECTOR appears.</li> </ol>
To Turn Air Detector ON-HIGH, ON-LOW or OFF	<ol> <li>Press</li></ol>
To Turn Upstream Sensor ON/OFF	<ol> <li>Press NEXT until UPSTREAM SENSOR appears.</li> <li>Press</li></ol>
To Exit Biomed Functions	<ol> <li>Press NEXT until NEXT FOR BIOMED, ENTER FOR MAIN appears.</li> <li>Press ENTER/CLEAR to return to main screen. Or press NEXT to continue in Biomed settings loop.</li> </ol>
PROGRAMMI	NG SCREENS
Main Screen	Displays status of pump (STOPPED or RUN)
Reservoir volume	volume of fluid in reservoir
Concontration	Concentration of medication in ma/ml or mea/ml
Continuous Rate	Continuous rate of infusion
	(ml/hr. ma/hr. mca/hr)
Demand Dose	(ml/hr, mg/hr, mcg/hr) Amount delivered when patient presses the DOSE key or Remote Dose Button
Demand Dose Dose Lockout	(ml/hr, mg/hr, mcg/hr) Amount delivered when patient presses the DOSE key or Remote Dose Button Amount of time that must elapse between demand doses (appears if demand dose is programmed)
Demand Dose Dose Lockout Doses Per Hour	<ul> <li>(ml/hr, mg/hr, mcg/hr)</li> <li>Amount delivered when patient presses the DOSE key or Remote Dose Button</li> <li>Amount of time that must elapse between demand doses (appears if demand dose is programmed)</li> <li>Maximum number of demand doses allowed in any one hour period (appears if demand dose is programmed and demand dose lockout is less than one hour)</li> </ul>
Demand Dose Dose Lockout Doses Per Hour Doses Given	<ul> <li>(ml/hr, mg/hr, mcg/hr)</li> <li>Amount delivered when patient presses the DOSE key or Remote Dose Button</li> <li>Amount of time that must elapse between demand doses (appears if demand dose is programmed)</li> <li>Maximum number of demand doses allowed in any one hour period (appears if demand dose is programmed and demand dose lockout is less than one hour)</li> <li>Displays number of demand doses given since screen was last cleared (appears if demand dose is programmed)</li> </ul>
Demand Dose Dose Lockout Doses Per Hour Doses Given Doses Attempted	<ul> <li>(ml/hr, mg/hr, mcg/hr)</li> <li>Amount delivered when patient presses the DOSE key or Remote Dose Button</li> <li>Amount of time that must elapse between demand doses (appears if demand dose is programmed)</li> <li>Maximum number of demand doses allowed in any one hour period (appears if demand dose is programmed and demand dose lockout is less than one hour)</li> <li>Displays number of demand doses given since screen was last cleared (appears if demand dose s attempted since screen was last cleared (appears if demand dose s attempted since screen was last cleared (appears if demand dose is programmed)</li> </ul>
Demand Dose Dose Lockout Doses Per Hour Doses Given Doses Attempted Given	<ul> <li>(ml/hr, mg/hr, mcg/hr)</li> <li>Amount delivered when patient presses the DOSE key or Remote Dose Button</li> <li>Amount of time that must elapse between demand doses (appears if demand dose is programmed)</li> <li>Maximum number of demand doses allowed in any one hour period (appears if demand dose is programmed and demand dose lockout is less than one hour)</li> <li>Displays number of demand doses given since screen was last cleared (appears if demand dose is programmed)</li> <li>Displays number of demand doses attempted since screen was last cleared (appears if demand dose is programmed)</li> <li>Displays number of demand doses attempted since screen was last cleared (appears if demand dose is programmed)</li> <li>Total amount of medication delivered since display was last cleared (ml, mg, mcg)</li> </ul>
Demand Dose Dose Lockout Doses Per Hour Doses Given Doses Attempted Given Air Detector (status only)	<ul> <li>(ml/hr, mg/hr, mcg/hr)</li> <li>Amount delivered when patient presses the DOSE key or Remote Dose Button</li> <li>Amount of time that must elapse between demand doses (appears if demand dose is programmed)</li> <li>Maximum number of demand doses allowed in any one hour period (appears if demand dose is programmed and demand dose lockout is less than one hour)</li> <li>Displays number of demand doses given since screen was last cleared (appears if demand dose is programmed)</li> <li>Displays number of demand doses attempted since screen was last cleared (appears if demand dose is programmed)</li> <li>Total amount of medication delivered since display was last cleared (ml, mg, mcg)</li> <li>Indicates if air detector is turned on or off and high or low sensitivity level</li> </ul>

### CHANGING THE CASSETTE

To Remove Used Cassette	<ol> <li>Stop the pump.</li> <li>Close all tubing clamps.</li> <li>Disconnect tubing from patient.</li> <li>Use key to unlock used cassette.</li> <li>Remove and discard used cassette.</li> </ol>
To Attach New Cassette	<ol> <li>Close all tubing clamps.</li> <li>Insert new cassette hooks into pump's hinge pins.</li> <li>Place pump with cassette on firm surface and push down on top of pump so cassette fits tightly against the pump.</li> <li>Insert a key into the lock, push in and turn until the line on the lock lines up with the arrow on the side of the pump.</li> <li>Gently twist and pull on cassette to make sure it is attached properly.</li> <li>Press SET/CLEAR to reset reservoir volume, if appropriate.</li> <li>If the Air Detector is in use, make a small loop of tubing underneath the air detector and hold it with your thumb. Place the tubing over the groove in the air detector and tuck it under the catch. Seat the tubing into the groove by gently pulling the tube upward until it is under the retention nubs and flat in the groove.</li> <li>WARNING: Attach the cassette [the part of the Medication Cassette reservoir or CADD" administration set that attaches to the pump] properly. An improperly attached or detached cassette could result in unregulated gravity infusion of medication from the fluid container or a reflux of blood. If you are using a CADD" administration set or Medication Cassette reservoir that does not have the flow stop feature [catalog number does not start with 21-73xx]: You must use a CADD" extension set with an integral anti-siphon Valve or a CADD" administration set with either and integral or add on anti-siphon valve to protect against unregulated gravity infusion that can result from an improperly attached cassette.</li> </ol>
DOSING	
To Start Demand Dose	Pump must be running. 1. Press DOSE or remote dose cord button. Note: If you wish to stop delivery of the demand dose, press and hold STOP/START to stop the pump.
To Start Clinician Bolus	<ul> <li>Pump must be running.</li> <li>1. Press LOCK.</li> <li>2. Press  → until Clinician Bolus Code appears.</li> <li>3. Press LOCK or ENTER/CLEAR.</li> <li>4. Press  or  → to select desired amount.</li> <li>5. Press DOSE or ENTER/CLEAR to start bolus.</li> <li>Note: If you wish to stop delivery of a clinician bolus, press and hold STOP/START to stop the pump.</li> </ul>
To Use the Remote Dose Cord/Button	<ul> <li>Use remote dose button on cord in same manner as DOSE key on pump keyboard.</li> <li>Attach the remote dose cord by inserting the connector into the accessory jack and pushing firmly until it snaps into place.</li> <li>Detach the remote dose cord by grasping the connector and pulling it out of the jack.</li> <li>Do not use excessive force or instruments, such as pliers, to remove the remote dose cord from pump.</li> </ul>