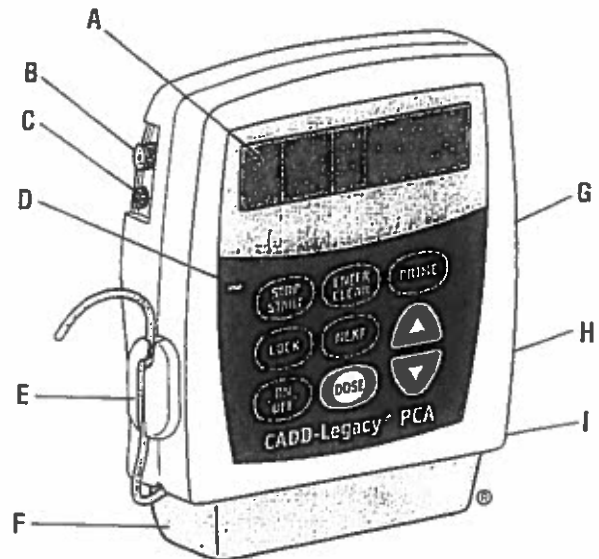# CADD-Legacy®

## 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 Lock 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.

## smiths

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# PROGRAMMING / SET-UP SEQUENCE

Batteries must be installed; pump must be stopped and in LL0.
NOTE: Value Not Saved is displayed if a value is scrolled and ENTER/CLEAR is not pressed. Press NEXT to continue programming.

**'NG:** If the pump is dropped or hit, inspect it for damage. Do not use a ...nat is damaged or is not functioning properly.

| | |
|---|---|
| Mai.. Screen | Press NEXT. |
| Enter Reservoir Volume | 1. Press ▲ or ▼ to select desired Reservoir Volume.<br>2. Press ENTER/CLEAR.<br>3. Press NEXT. |
| Enter Units | 4. Press ▲ or ▼ to select desired units.<br>5. Press ENTER/CLEAR.<br>6. Press NEXT. |
| Enter Concentration | NOTE: This screen does not appear if programming in milliliters.<br>7. Press ▲ or ▼ to select desired Concentration.<br>8. Press ENTER/CLEAR.<br>9. Press NEXT. |
| nter Continuous ate | 10. Press ▲ or ▼ to select desired Continuous Rate (select the upper limit if the program will be adjusted in LL1).<br>11. Press ENTER/CLEAR.<br>12. Press NEXT. |
| ...ter Demand Dose | 13. Press ▲ or ▼ to select desired Demand Dose (select the upper limit if program will be adjusted in LL1).<br>14. Press ENTER/CLEAR.<br>15. Press NEXT. |
| ...se Lockout | 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.<br>16. Press ▲ or ▼ to select desired Demand Dose Lockout.<br>17. Press ENTER/CLEAR.<br>18. Press NEXT. |
| ...er Doses Per ...r | NOTE: This screen will only appear if you have programmed a demand dose and dose lockout is less than 1 hour.<br>19. Press ▲ or ▼ to select desired Doses Per Hour.<br>20. Press ENTER/CLEAR.<br>21. Press NEXT. |
| ...ar Doses Given | 22. Press ENTER/CLEAR to clear the value for the number of Doses Given. The display will show 0.<br>23. Press NEXT. |
| ...ar Doses ...npted | 24. Press ENTER/CLEAR to clear the value for the number of Doses Attempted by the patient. The display will show 0.<br>25. Press NEXT. |
| ...r Given (ml, mcg) | 26. Press ENTER/CLEAR to clear the Given value. The display will show 0.00.<br>27. Press NEXT. |
| ...y Air Detector ...s | 28. Verify the setting is correct. (To change setting, see Biomed Functions section.)<br>29. Press NEXT. |

...s will appear only if you have programmed a demand dose.

# PROGRAMMING / SET-UP SEQUENCE (CONTD.)

| | |
|---|---|
| Verify Upstream Sensor Status | 30. Verify the setting is correct. (To change setting, see Biomed Functions section.)<br>31. Press NEXT. |
| Verify Programming | 32. Press NEXT repeatedly to review program. |
| To Operate in LL1 with Upper Limits, Decrease Continuous Rate and/or Demand Dose | *If pump will be operated in LL1 to allow adjustment of Continuous Rate and/or Demand Dose (up to the maximum entered in LL0):*<br>33. Change lock level to LL1.<br>34. Press NEXT to go to Continuous Rate or Demand Dose screen.<br>35. Press ▼ to select desired starting value.<br>36. Press ENTER/CLEAR. |

# PUMP OPERATIONS

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|---|---|
| Change the Lock Level | 1. Stop the pump.<br>2. Press LOCK.<br>3. Press ▲ or ▼ until desired lock level appears.<br>4. Press LOCK or ENTER/CLEAR.<br>5. Press ▲ or ▼ until the lock level code appears.<br>6. Press LOCK or ENTER/CLEAR. |
| Stop the Pump | 1. Press and hold STOP/START until (– – – – – – – – – – – –) appears on the display.<br>2. Release STOP/START key. STOPPED will appear on the display when the pump is stopped. |
| Start the Pump | 1. Press and hold STOP/START until (– – – – – – – – – – – –) disappears from the display.<br>2. Release STOP/START key. RUN will appear on the display when the pump is running. |
| Prime the Fluid Path | *Pump must be stopped and in LL0 or LL1.*<br>WARNING: Do not prime the fluid path with the tubing connected to a patient as this could result in over delivery of medication or air embolism.<br>1. Press and hold PRIME until the word PRIME appears on the display, along with (– – – – – – – – – – – –).<br>2. Release the PRIME key.<br>3. Press and hold PRIME until priming appears on the screen. Continue priming until the fluid path is free of air.<br>4. Press NEXT to return to the main screen. |
| Reset the Reservoir Volume | 1. Stop the pump.<br>2. Press NEXT to display the Reservoir Volume screen.<br>3. Press ENTER/CLEAR to reset the value to previously programmed amount. |
| Turn the Pump On | 1. Press and hold ON/OFF until pump beeps and powers up. |
| Turn the Pump Off | 1. Press and hold ON/OFF until (•••• •••• ••••) appears on the display.<br>2. Release ON/OFF key.<br>3. The screen will go blank as the pump goes into a lower power state. |
| Change the Batteries | 1. Stop the pump.<br>2. Push down and hold the arrow button on the battery door while sliding the door off. Remove and discard old batteries.<br>IMPORTANT: Always stop pump before removing batteries.<br>3. Install new batteries, matching polarities shown on the pump. Replace battery door and close.<br>4. Start the pump.<br>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 nondelivery of drug.<br>WARNING: Do not use rechargeable NiCad or nickel metal hydride (NIMH) batteries. Do not use carbon zinc ("heavy duty") batteries. |

## PUMP OPERATIONS (CONTD.)

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|---|---|
| **BIOMED FUNCTIONS** | *Pump must be stopped and in LLO.* |
| ..cess | 1. Press LOCK.<br>2. Press LOCK or ENTER/CLEAR.<br>3. Press △ or ▽ until the biomed code appears.<br>4. Press LOCK or ENTER/CLEAR.<br>5. Press NEXT to go through settings. |
| **To Turn Air Detector ON-HIGH, ON-LOW or OFF** | 6. Press NEXT until AIR DETECTOR appears.<br>7. Press △ or ▽ until desired setting appears.<br>8. Press ENTER/CLEAR.<br>9. Press NEXT.<br><br>WARNING: When the air detector is turned off, the pump will not detect air in the fluid path. Periodically inspect the fluid path and remove any air to prevent air embolism. |
| **To Turn Upstream Sensor ON/OFF** | 10. Press NEXT until UPSTREAM SENSOR appears.<br>11. Press △ or ▽ until desired setting appears.<br>12. Press ENTER/CLEAR.<br>13. Press NEXT.<br><br>WARNING: When the upstream occlusion sensor is turned off, the pump will not detect occlusions upstream (between pump and reservoir). Periodically inspect the reservoir for decreasing reservoir volume and inspect the fluid path for kinks, a closed clamp, or other upstream obstructions. Upstream occlusions could result in under- or non-delivery of medications. |
| **To Exit Biomed Functions** | 14. Press NEXT until NEXT FOR BIOMED, ENTER FOR MAIN appears.<br>15. Press ENTER/CLEAR to return to main screen. Or press NEXT to continue in Biomed settings loop. |

## P..GRAMMING SCREENS

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| ...lain Screen | Displays status of pump (STOPPED or RUN) |
| ...eservoir Volume | Volume of fluid in reservoir |
| ...nits | Programming units (ml, mg, mcg) |
| ...oncentration | Concentration of drug in mg/ml or mcg/ml |
| ...ontinuous Rate | Continuous rate of infusion (ml/hr, mg/hr, mcg/hr) |
| ...mand Dose | Amount delivered when patient presses the DOSE key or Remote Dose Button |
| ...se Lockout | Amount of time that must elapse between demand doses (appears if demand dose is programmed) |
| ...ses Per Hour | 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) |
| ...ses Given | Displays number of demand doses given since screen was last cleared (appears if demand dose is programmed) |
| ...ses Attempted | Displays number of demand doses attempted since screen was last cleared (appears if demand dose is programmed) |
| ...en | Total amount of drug delivered since display was last cleared (ml, mg, mcg) |
| ...ctor ...nly) | Indicates if air detector is turned On or Off and High or Low sensitivity level |
| ...Sensor tus only) | Indicates if turned On or Off |

## CHANGING THE CASSETTE

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| **To Remove Used Cassette** | 1. Stop the pump.<br>2. Close all tubing clamps.<br>3. Disconnect tubing from patient.<br>4. Use key to unlock used cassette.<br>5. Remove and discard used cassette. |
| **To Attach New Cassette** | 1. Close all tubing clamps.<br>2. Insert new cassette hooks into pump's hinge pins.<br>3. Place pump with cassette on firm surface and push down on top of pump so cassette fits tightly against the pump.<br>4. 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.<br>5. Gently twist and pull on cassette to make sure it is attached properly.<br>6. Press SET/CLEAR to reset reservoir volume, if appropriate.<br>7. 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.<br><br>WARNING:<br>Attach the cassette properly. An improperly attached cassette could result in unregulated gravity infusion of medication from the reservoir or a reflux of blood, which could result in death or serious injury to the patient. You must use a CADD® Extension Set with anti-siphon valve or a CADD® Administration Set with either an integral or an add-on anti-siphon valve to protect against unregulated gravity infusion that can result from an improperly attached reservoir. |

## DOSING

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|---|---|
| **To Start Demand Dose** | *Pump must be running.*<br><br>1. Press DOSE or remote dose cord button.<br>Note: If you wish to stop delivery of the demand dose, press and hold STOP/START to stop the pump. |
| **To Start Clinician Bolus** | *Pump must be running.*<br>1. Press LOCK.<br>2. Press ▽ until Clinician Bolus Code appears.<br>3. Press LOCK or ENTER/CLEAR.<br>4. Press △ or ▽ to select desired amount.<br>5. Press DOSE or ENTER/CLEAR to start bolus.<br>Note: If you wish to stop delivery of a clinician bolus, press and hold STOP/START to stop the pump. |
| **To Use the Remote Dose Cord/Button** | • Use remote dose button on cord in same manner as DOSE key on pump keyboard.<br>• Attach the remote dose cord by inserting the connector into the Accessory Jack and pushing firmly until it snaps into place.<br>• Detach the remote dose cord by grasping the connector and pulling it out of the jack.<br>Do not use excessive force or instruments, such as pliers, to remove the remote dose cord from pump. |

## ALARMS & TROUBLESHOOTING

The CADD-Legacy® PCA pump signals with audible alarms and messages that appear on the display when a condition requires your attention.

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|---|---|
| s Vol Low<br>hree beeps | Level of fluid in the reservoir is low. Prepare to install new reservoir. |
| Reservoir Volume Empty<br>♫ 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<br>♫ 3 two-tone beeps every 5 minutes | Batteries are low, but pump is operable. Change batteries soon. |
| Battery Depleted<br>♫ Two-tone alarm | Batteries are depleted and cannot operate pump; install new batteries immediately. |
| Battery Removed Pump Won't Run<br>♫ 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. |
| High Pressure<br>♫ Two-tone alarm | High pressure is being caused by an obstruction 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 obstruction and restart pump. |
| Upstream Occlusion<br>♫ Two-tone alarm | 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 obstruction to resume operation. Press STOP/START or NEXT to stop the pump and silence alarm for two minutes, then remove the obstruction and restart the pump. |
| Screen displays current pump status<br>♫ 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<br>♫ 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. |
| Stopped<br>♫ Three beeps every five minutes | Pump is stopped. Start pump, if appropriate. |
| Remote Dose Cord Removed<br>♫ Two beeps when pump stopped, two-<br>   larm when<br>  s running | Remote dose cord removed while pump was running. |

## ALARMS & TROUBLESHOOTING continued

| | |
|---|---|
| Programming Incomplete<br>♫ Two-tone alarm when starting pump | Verify all programming screens by pressing ENTER/CLEAR before moving to next screen or starting pump. |
| Value Not Saved | A value was not saved by pressing ENTER/CLEAR. Press NEXT to resume programming. |
| Error<br>♫ Two-tone alarm | An error has occurred. Remove pump from service. |
| No message displayed<br>♫ Two-tone alarm | The pump was running when batteries were removed or the batteries were removed within 15 seconds after stopping the pump. Batteries must be reinstalled.<br><br>IMPORTANT: Always stop pump before removing batteries. |
| No Disposable, Clamp Tubing<br>♫ Two beep (long-short) alarm | 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. |
| Service Due<br>♫ Two-tone alarm | The pump is due for service. |