PUMP OPERATIONS	KEYS	INSTRUCTIONS
Stopping the Pump (Programming and priming can only be done in the Stop mode)	STOP/START	1. Press and hold STOP/START key until (---) appears on display. (The word STOP will flash in the lower right corner of the display.)
FOR THE FOLLOWING OPERATIONS, THE PUMP MUST BE PLACED IN THE STOP MODE.		
Changing the Lock Level	LOCK △▽	1. Press and release LOCK key to determine the current lock level. 2. Use scroll keys to select the desired lock level. 3. Press LOCK key again after you have selected the lock level. 000 will appear on the display. 4. Use scroll keys to enter the security code. 5. Press the LOCK key again to complete the locking sequence.
Changing the Battery		1. Make sure the pump is in the Stop mode. Push the battery door release button and slide the door off. Remove and discard the used battery. 2. Install new battery in the compartment, bottom-end first. Place battery door halfway over battery compartment and press battery into compartment. Slide the battery door closed. **IMPORTANT:** If a gap is present anywhere between the battery door and pump housing, the door is not properly latched. 3. Start the pump.
Removing the Administration Set		**CAUTION: Always close fluid path tubing with the clamp before removing administration set from the pump.** 1. Insert coin into locking button and turn one-quarter turn clockwise until button pops out. 2. Remove used administration set from the pump and discard.
Attaching a new Administration Set		1. Attach a new administration set to the pump, hinge side first. Place pump in an upright position on a firm, flat surface. Press downward on the top of the pump to ensure it fits tightly. 2. Insert coin into locking button, push in and turn one-quarter turn counter-clockwise until definite stop is felt. **WARNING: It is essential that you attach the cassette properly. The coin slot of the locking button must align with the arrow or seam on the pump case. If you do not attach the cassette properly, unregulated gravity infusion of medication from the reservoir or a reflux of blood may result, which could result in death or serious injury to the patient.** *To begin each infusion in LL0 or LL1, follow the programming steps below to reset the pump. It is important that both the RES VOL and INFUSION ML screens be reset in order to start the infusion at the beginning of the infusion period.*
STEPS TO BEGIN EACH INFUSION IN LL0 AND LL1		
Resetting the RESERVOIR VOLUME (RES VOL)	SELECT MODE / SET CLEAR	1. Press SELECT MODE until the "RES VOL" screen appears on the display. 2. Press SET/CLEAR to reset value to previously programmed amount.
Resetting the INFUSION ML	SELECT MODE / SET CLEAR	3. Press SELECT MODE until the "INFUSION ML" screen appears on the display. 4. Press SET/CLEAR key. **IMPORTANT:** Even though the value on the INFUSION ML display does not change, you must press SET/CLEAR to reset this screen. This tells the pump to start at the beginning of the infusion. Make sure you hear a beep when you press SET/CLEAR.
Clearing the ML GIVEN	SELECT MODE / SET CLEAR	Note: The pump must be in LL0 to perform this function. 1. Press SELECT MODE until the "ML GIVEN" screen appears on the display. 2. Press SET/CLEAR key to clear the ML GIVEN value to 0000.
Priming (LL0 or LL1)	PRIME	1. Press and hold PRIME key until (PPP) appears on display. 2. Release key, then press and hold key again until the fluid path is primed.
Starting the Pump	STOP/START	1. Press and hold STOP/START key until (---) disappears from display. (The pump will review the programmed values, then ML will flash in the upper right corner of the display.) **IMPORTANT:** If you are beginning a new infusion and a taper up is programmed, verify that you are starting the infusion at the beginning of the cycle by looking for "TAPER ↑" flashing on the screen after the pump is started. (Be sure to distinguish TAPER ↑ from "TAPER ↓". If you do not have a taper up programmed, you will not see this up arrow.
Tapering Down Immediately	STOP/START / SELECT MODE / △▽	Note: To taper down immediately, the pump must be in the process of delivering solution at the continuous rate, and a taper-down period must have been programmed initially. 1. Stop the pump. 2. Press SELECT MODE until "ML/HR" appears on the display. 3. Press the down SCROLL key. The "TAPER ↓" indicator will appear on the display. 4. Press the SET/CLEAR key to set the programmed taper-down period. 5. Start the pump. The taper-down period will begin immediately, and the "TAPER ↓" and "ML" indicators will blink on the display.

PROGRAMMING SEQUENCE

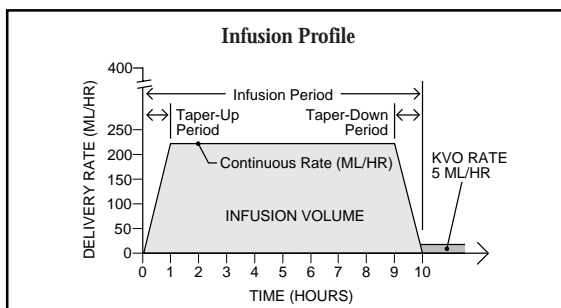| STANDARD DELIVERY	KEYS
A. Setting RESERVOIR VOLUME (RES VOL) (Volume of solution in the fluid container) 1. Press SELECT MODE until "RES VOL" appears on the display. 2. Use SCROLL keys to change the value to match the actual volume in the fluid container. 3. Press SET/CLEAR to set new value.	SELECT MODE △▽ SET CLEAR
B. Setting INFUSION (ML) (Amount of solution to be delivered) 1. Press SELECT MODE until "INFUSION ML" appears on the display. 2. Use SCROLL keys to change the value for the infusion volume. 3. Press SET/CLEAR to set new value.	SELECT MODE SET CLEAR
C. Setting INFUSION PERIOD (HR:MIN) (Total amount of time needed to deliver the solution, including the continuous and tapered infusion periods.) 1. Press SELECT MODE until "INFUSION PERIOD (HR:MIN)" appears on the display. 2. Use the SCROLL keys to change the value for the infusion period. 3. Press SET/CLEAR to set new value.	SELECT MODE △▽ SET CLEAR
D. Setting the TAPER-UP PERIOD (HR:MIN) (Amount of time at the beginning of the infusion period during which the rate is tapered up to the continuous rate) 1. Press SELECT MODE until "TAPER ((HR:MIN)" appears on the display. 2. Use the SCROLL keys to change the value for the taper-up period. 3. Press SET/CLEAR to set new value.	SELECT MODE △▽ SET CLEAR
E. Setting the TAPER-DOWN PERIOD (HR:MIN) (Amount of time at the end of the infusion period during which the rate is tapered down from the continuous rate) 1. Press SELECT MODE until "TAPER ↑ (HR:MIN)" appears on the display. 2. Use the SCROLL keys to change the value for the taper-down period. 3. Press SET/CLEAR to set new value.	SELECT MODE △▽ SET CLEAR
F. Reviewing the ML/HR (Number of milliliters delivered per hour) 1. Press SELECT MODE until "ML/HR" appears on the display. (This **nonprogrammable** value is automatically calculated by the pump after you complete the programming.)	SELECT MODE
G. Clearing the ML GIVEN (Total number of milliliters delivered since the display was last cleared) 1. Press SELECT MODE until "ML GIVEN" appears on the display. 2. Press SET/CLEAR to clear value. (This nonprogrammable value is automatically calculated by the pump in 10 ml increments as solution is delivered.)	SELECT MODE SET CLEAR

ADDITIONAL POWER SOURCE OPTIONS
In addition to powering the pump with a 9-volt battery, you have these power source options: 1. Power pack (rechargeable) with a battery adapter 2. Power pack (rechargeable) with a battery adapter and AC adapter Refer to the External Power Source (EPS) System *Instructions for Use* for detailed information.

ALARMS AND TROUBLESHOOTING

ALARM/CONDITION	CAUSE	CORRECTIVE ACTION
RES VOL and ML blink on the display; 1 beep sounds at 50ml, 40ml, 30ml, 20ml and 10ml.	The ML remaining value (RES VOL) is at or below 50 ml.	Prepare to discontinue therapy, or use another fluid container if the infusion has not been completed.
STOP blinks on the display; 2 beeps sound each second.	The fluid container is empty. The ML value (RES VOL) is at 0000.	Press STOP/START or SET/CLEAR to stop alarm and reset reservoir volume (RES VOL). Remove the used fluid container and install a new, filled one if necessary.
STOP blinks on the display; 3 beeps sound each second.	The pump is in the Stop mode.	Start the pump, or remove the power source, if appropriate.
LO BAT blinks on the display; 3 beeps sound every 5 minutes.	Battery is low, but pump is still operable.	Change the battery soon, or prepare to use the EPS System.
LO BAT remains on the display; a continuous, variable-tone alarm sounds.	Battery is too low to operate pump; pump operation stops.	Change the battery immediately, or prepare to use the EPS System.
HI P appears on the display; a continuous, variable-tone alarm sounds; pump delivery stops.	High pressure is being caused by an obstruction in the fluid path.	Remove the obstruction or press STOP/START to turn off the alarm and put the pump into the Stop mode. Restart the pump if necessary.
The letter E and two numbers appear on the display; a continuous, variable-tone alarm sounds.	A controller, microprocessor or motor fault has occurred. Pump operation stops.	Close the tubing with the clamp and remove the pump from service.
All indicators appear on the display; a continuous, variable-tone alarm sounds.	A power-up fault has occurred or battery is too low to operate pump.	Remove and reinsert the battery, or insert a new battery. Remove pump from service if alarm persists.
A series of 9 beeps sound in succession.	The end of the infusion period has been reached. The pump switches to the KVO rate of 5 ml/hr.	Corrective action is not necessary.
If the calculated continuous infusion rate is greater than 400ml/hr, the "Rate Too High" alarm (a two-tone alarm) will sound.	A new, larger infusion volume has been programmed, or a new, shorter taper-up or taper-down period has been programmed.	Press the SCROLL keys to select a new value for the longer infusion period. Press the SET/CLEAR key to set the value for the new infusion period, and the alarm will stop.
If the calculated continuous infusion rate is lower than 10ml/hr, the "Rate Too Low" alarm (a two-tone alarm) will sound.	A new, smaller infusion volume has been programmed, or a new, shorter taper-up or taper-down period has been programmed.	Press the SCROLL keys to select a new value for the shorter infusion period. Press the SET/CLEAR key to set the value for the new infusion period, and the alarm will stop.
The power pack is beeping (single beep every few seconds) and the amber LED is flashing.	The battery in the power pack has reached a low charge. (Note: When the beeping starts, the pump will continue to run for approximately 30 minutes. Then, the pump will sound a low battery alarm.)	Attach the AC adapter to the power pack and plug the AC adapter into a wall outlet. This stops the beeping and begins recharging the power pack, or stop the pump. Disconnect the battery adapter from the power pack, then remove the battery adapter from the pump. To continue your infusion, you may insert a fresh 9-volt alkaline or lithium battery into the pump.

Infusion Profile

CADD-TPN®

Infusion Pump
Model 5700

Quick Reference Card for Clinicians

A Display
B Cassette (part of the reservoir or administration set that attaches to pump)

Keypad

STOP/START	Stops and starts the pump
SET/CLEAR	Sets new value; clears record-keeping screens
LOCK	Displays or changes lock levels (security levels)
PRIME	Fills tubing with fluid
SELECT MODE	Advances to next programming screen
△ ▽	Change numerical values on programming screens

This card is for functions that can performed in Lock Level 0. Please make sure this card is only accessible to users at your facility who have knowledge of programming the pump in Lock Level 0. Contact our Customer Service department at the number listed below if you have any additional questions regarding pump operations.
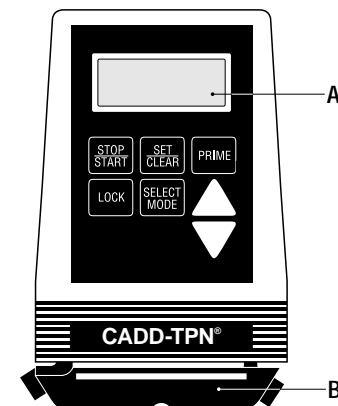
This publication is intended as an operating reference only. For detailed instructions, specifications, warnings, warranty and additional information on operating the Model 5700 CADD-TPN pump, please refer to the Operator's Manual supplied with the product. **Assistance with programming and operation of the CADD-TPN pump is available to clinicians 24-hours-a-day by calling 800-426-2448 in the U.S.A. and Canada.**