OPTIONS
NOTE: Press YES at each field to advance to the next field. Pressing YES to ACCEPT OPT at the end of the menu is mandatory to confirm all changes made in the OPTIONS menu.
Lock: This is the security level setting. Press YES to accept or NO to change Lock Setting. Enter access code if prompted. Press YES to accept new setting.
Clin DOSE: This is the Clinician Dose feature. Press YES to leave the screen off. If an extra Clinician Dose is ordered, press NO to OFF (enter access code if prompted, then press NO to OFF again). Press YES to ON and enter the Clinician Dose. Press YES to confirm Clinician Dose and YES to ACCEPT?
SHIFT TOT: This is the accumulated infusion data. Press YES to leave the screen off. To view, press NO to OFF and YES to ON. To clear Shift Totals, press NO to the EXIT field, then YES to CLEAR. Press YES again to EXIT the menu.
HRLY TOT: This is the hourly infusion totals. Press YES to leave the screen off or NO to change to ON, then press YES to ON to view. Use the UP/DOWN ARROW keys to view the previous 24 hour totals. Press NO to exit the screen.
CLR HRLY: Press YES to leave the screen off or NO to change to ON, then press YES to ON to view. At the ACCEPT? YES/NO field, press YES to clear or NO to retain the Hourly Totals and exit the screen.
medLMTs: This OPTION appears only if MedLMTs (medication limits) have been programmed. This feature allows for program parameters to be titrated without interrupting the infusion. Press YES to leave the screen off or NO to titrate, then press YES to ON. Enter new infusion parameters and press YES to accept.
DN Occlu: This is the downstream occlusion sensitivity setting (default setting is HIGH). Press YES to accept or NO to change then press YES to accept.
AIR SENS: This is the air-in-line sensitivity setting (default setting is 0.5 mL). Press YES to accept or NO to change then press YES to accept.
AUDIO: This is the audible volume control: Press 1-9 to hear level, press YES to accept the desired volume.
POWER CK: This is the power source with power graph. Press YES to leave the screen off or NO to change to ON, then press YES to ON to view the power graph. Screen automatically returns to OPTIONS menu after several seconds.
ACCEPT OPT: Press YES to accept any changes made. Pressing NO will cancel any setting changes.

CHANGING THE SOLUTION CONTAINER
1. Press the PAUSE key.
2. Change the solution container.
3. Highlight REPEAT RX, then press YES.
4. Highlight correct therapy if requested, then press YES.
5. If any on-screen alerts appear, press the YES key.
6. Note any on-screen ADVISORY and press YES to continue.
7. The program will auto-scroll (or confirm each field by pressing YES).
8. Press RUN to start the infusion.

CHANGING THE RX
(BAG VOL, BASL RATE, Pt BOLUS, BOLUS INT, # BOLS/hr)
1. Press the PAUSE key.
2. Press YES to RESUME.
3. Press NO to review.
4. Press YES to each field until the value to change is reached.
5. At the desired field(s), enter the new program parameters (enter access code if prompted). If an access code was needed, enter the new parameters again. Press YES to confirm.
6. Press YES to all other highlighted areas if no other changes are to be made.
7. At DONE? press YES.
8. Press RUN to start the infusion.

TROUBLESHOOTING
NOTE: For all alarms except “INFUSION COMPLETE”, follow these instructions before proceeding to the RESOLUTION section below. To silence and exit Alarm/Alert screens, press the PAUSE key, press YES to RESUME, then resolve the alarm. When ready to resume the infusion, press RUN to start the infusion.

LCD DISPLAY/RESOLUTION/POSSIBLE CAUSES
INFUSION COMPLETE
Press PAUSE, attach new solution container, highlight REPEAT RX and press YES. The program will auto-scroll (or confirm each field by pressing YES). If therapy is complete, turn pump off.

AIR-IN-LINE
Press the PRIME key, then follow on-screen instructions to remove air from the tubing and IV bag. CAUTION: Disconnect set from patient’s access site before priming. Sets with in-line ASVs must be primed on the pump.

ALARM DOWN OCCLUSION
Down occlusions auto-correct when occlusion is resolved without the need to press PAUSE. Check the tubing from pump to patient’s IV site for cause, then correct obstruction per protocol. Consider changing the DN Occlu setting from LOW to HIGH (See OPTIONS section). Possible causes: kinked or clamped line, infiltrated/positional IV site, viscous solution, small gauge catheter.

ALARM UP OCCLUSION
Check tubing from pump to IV bag for cause, then correct obstruction per protocol. Possible causes: glass container without vented spike adapter, line kinked in pump door, bag empty, bag not spiked properly.

ALARM HIGH UP PRESSURE
Check for excessive pressure on IV bag. Causes: uneven fluid distribution within lockbox or carrying pouch, object pressing on solution container.

ALARM SET NOT INSTALLED
Use only Curlin administration sets. Check that set is installed properly. Refer to Instructions for Use in set package or Installing Administration Set section in this guide. Possible causes: tab not removed from yellow Flow-Stop, blue guide pin or yellow Flow-Stop not properly seated in receptacles, no set installed.

ALARM UNATTENDED
The pump will alarm when left idle for 2 minutes. Press RUN to start the infusion or press OFF to power down the pump.

ALARM REPLACE SET 3
Replace set and prime if necessary. Possible causes: flattening of the soft pumping segment of the set due to overuse, use of a glass container without a vented spike adapter, excessive plunger stiction with syringe use.

ALARM REPLACE SET 4
Equalize the pressure in the set by priming (disconnect from the patient). Turn pump OFF then ON to reset the sensor prior to resuming the infusion.

ALARM DOOR OPEN
Check placement of the administration set and close pump door properly. See User’s Manual for instructions.

ALARM EMPTY BATTERY
Turn pump off by pressing the OFF key. Install 2 new batteries and turn pump back on.

ERROR CODE
If an error code occurs, turn pump off and consult provider or manufacturer.
**Installing/Changing the Batteries**

1. **PAUSE** the pump.
2. Turn the pump **OFF**.
3. Open the battery door by sliding the gray ‘slider’ to the right to the “UNLOCK” position and slide the door down to remove.
4. Remove old batteries from the top first. Insert new batteries bottom or flat side against the coils first, then push the top side into place.
5. Replace door and return slider to ‘LOCK’ position and turn pump **ON**.
6. Press **YES** to **PROGRAM** (or **LIBRARY** if using the protocol **LIBRARY**).
7. Press **YES** to **RESUME** (or **YES** to Repeat RX if current container has not begun or if changing the container).
8. Press **RUN** to start.

**Installing the Administration Set**

1. Open pump door.
2. Remove the old tubing.
3. Remove the new administration set from the package.
4. Locate the **BLUE** and **YELLOW** arrows inside the pump as a reference point.
5. Insert the tubing using the reference points.
6. Ensure the tubing passes through the notch in front of the door hinge.
7. Center tubing over pumping fingers.
8. Twist and remove breakaway tab from **YELLOW Flow-Stop** prior to connecting to solution container.
9. Squeeze **YELLOW Flow-Stop** between thumb and forefinger to allow fluid to flow through tubing.

**Programming a PCA Therapy Using Manual Program Mode**

Note: When operating the pump on battery power, the LCD screen dims after a period of time to conserve battery power. Any keypress will illuminate the screen.

Note: Use the **UP/DOWN ARROW** keys to move highlighter. Use the numeric keys for data entry.

1. Turn the pump **ON** and wait for the self-test to complete.
2. Highlight **PROGRAM** from the SELECT menu and press **YES**.
3. Highlight **NEW PROGRAM** and press **YES**. Enter access code, if prompted.
4. Highlight **PCA** from the therapy selection menu and press **YES**. If any on-screen alerts appear, press the **YES** key.
6. Select **UNITS**: Press **YES** if units desired is indicated (choices are **mg** or **mcg** or **mL**). To change units press **NO** until desired unit is reached, then press **YES** to confirm. If mg or mcg is selected, enter the concentration and press **YES**.
7. Select **ADMIN RT**: Press **YES** if administration route desired is indicated (choices are **IV**, ** Epidural** or **SQ**). To change ADMIN RT press **NO** until desired route is reached, then press **YES** to confirm.
8. Enter the **LOAD DOSE** amount. If no loading dose is ordered, leave at zero, then press **YES** to confirm.
10. At **Next?** press **YES** to continue.
11. Enter **Bag Volume**, press **YES**.
12. Enter **BASAL RATE** (if any), press **YES**.
13. Enter **Pt BOLUS** dose (if any), press **YES**.
14. Enter the **Pt BOLUS** **INT** (if Pt BOLUS is set), press **YES**.
15. Enter # **BOLUS/hr**, press **YES** (60/Bolus **INT** = max # Boluses in one hour. This field may be set to the maximum boluses or fewer if ordered).
16. Press **YES** at **DONE**?

**Programming a PCA Therapy Using Protocol Library Mode**

Note: The following screen (“NEW PROGRAM”) will not appear if the previous RX has been cleared from the pump. If this screen does not appear, skip to step #4.

1. Press the **PRIME** key to prime the set (see Priming section for instructions).
2. Highlight **LIBRARY** from the SELECT menu and press **YES**.
3. Highlight **NEW PROGRAM** and press **YES**. Enter access code, if prompted.
4. Highlight the desired **CAT** and **DRG** (see OPTIONS section for instructions).
5. If any on-screen alerts appear, press the **YES** key.
6. Enter the **LOAD DOSE** amount. If no loading dose is ordered, leave at zero, then press **YES** to confirm.
7. If changes are needed to the pre-programmed values, highlight the field.
8. Press **YES** to **ACCEPT**?
9. If changes are needed to the pre-programmed values, highlighted, press **YES** (this indicates Manual Programming Mode).
10. Select **UNITS**: Press **YES** if units desired is indicated (choices are **mg**, **mcg** or **mL**). To change units press **NO** until desired unit is reached, then press **YES** to confirm. If mg or mcg is selected, enter the concentration and press **YES**.
11. Select **ADMIN RT**: Press **YES** if administration route desired is indicated (choices are **IV**, ** Epidural** or **SQ**). To change ADMIN RT press **NO** until desired route is reached, then press **YES** to confirm.
12. Enter the **LOAD DOSE** amount. If no loading dose is ordered, leave at zero, then press **YES** to confirm.
13. Enter **Pt BOLUS** dose (if any), press **YES**.
14. Enter the **Pt BOLUS** **INT** (if Pt BOLUS is set), press **YES**.
15. Enter # **BOLUS/hr**, press **YES** (60/Bolus **INT** = max # Boluses in one hour. This field may be set to the maximum boluses or fewer if ordered).
16. Press **YES** at **DONE**?

**Running To Start Screen**

1. Press the **NO** key to review the program and/or change the RX (see CHANGING THE RX section for instructions).
2. Press the **OPTIONS** Key to review or change desired pump settings (see OPTIONS section for instructions).
3. Press the **PRIME** Key to prime the set (see Priming section for instructions).
4. Press **RUN** to start the infusion.

**MOOG Terms & Definitions**

- **LOADING DOSE**: - Dose given at start of therapy only
- **BASAL RATE**: - Continuous rate
- **PT BOLUS**: - PCA demand dose
- **BOLUS INTERVAL**: - Lockout time between bolus doses
- # **OF BOLUSES/HR**: - Number of total boluses allowed per hour
- **CLINICIAN DOSE**: - Clinician given dose