











## Slide 6

## JCT2 Not adding air detection setting here Tharp, Jamie, 3/25/2015





## Sapphire External Battery Pack (EBP) External Pack Charge Capabilities Pump operation with EPB at 125 mL/h= 15-20 hours EBP is connected properly if the external battery icon shows on the pump (right corner) LED at the bottom of the EBP is illuminated Replace batteries when light flashes Detach the EBP when regular power supply restored and wall charging available Strap included for IV pole hanging

Reference: QCore Sapphire EBP Package Insert

Authorization (Lock) Levels	Features Available in Level
<b>Low-</b> do not plan to use regularly	Stop (and resume) the pump Power on and off
9990	Use the view menu
Medium*–	All of above and Start an infusion Use Preset program feature
Code =8880	Use Restart last program feature Prime View bolus rate (PCA) Unlock Patient Lock Status
High-	All of above and Start Infusions using NEW infusion feature View/Edit parameters
Issued by HomeMed	Access Configuration menu Create/Edit Preset programs Use All PCA options Change the infusion mode (w/ passcode entry) Administer Clinician bolus (w/ passcode entry)
Technician-	Access to pump testing and configuration for equipment staff

## 5

Mode	Description	<u>Notes</u>
Continuous	Delivers and infusion as a constant, programmed rate	No KVO available in HomeMed's configuration
Intermittent	Delivers infusions at intermittent, pre-set intervals	Commonly used for high frequency antibiotic dosing (e.g. nafcillin)
Multi–Step	Delivers the infusion in a set of 1 to 25 steps	KVO= 3mL/hr Possible uses for IVIG or continuous programs (1 step) requiring KVO
PCA	Delivers a basal pre-set rate either alone or in addition to PCA boluses	
TPN	Delivers an infusion at a constant rate, with optional tapering at the beginning and end of the infusion	Can also be used for continuous infusion therapies (where KVO allowable) in addition to TPN program

![](_page_6_Figure_3.jpeg)

![](_page_7_Picture_2.jpeg)

![](_page_7_Picture_3.jpeg)

![](_page_8_Figure_2.jpeg)

![](_page_8_Picture_3.jpeg)

![](_page_9_Picture_2.jpeg)

![](_page_9_Figure_3.jpeg)

![](_page_10_Picture_2.jpeg)

![](_page_10_Picture_3.jpeg)

![](_page_11_Picture_2.jpeg)

![](_page_11_Picture_3.jpeg)

![](_page_12_Picture_2.jpeg)

![](_page_12_Picture_3.jpeg)

![](_page_13_Picture_2.jpeg)

![](_page_13_Figure_3.jpeg)

![](_page_14_Figure_2.jpeg)

![](_page_14_Figure_3.jpeg)

![](_page_15_Figure_2.jpeg)

![](_page_15_Picture_3.jpeg)

![](_page_16_Figure_2.jpeg)

![](_page_16_Figure_3.jpeg)

![](_page_17_Picture_2.jpeg)

![](_page_17_Picture_3.jpeg)

![](_page_18_Figure_2.jpeg)

![](_page_18_Picture_3.jpeg)

![](_page_19_Figure_2.jpeg)

![](_page_19_Picture_3.jpeg)

![](_page_20_Figure_2.jpeg)

![](_page_20_Picture_3.jpeg)

![](_page_21_Picture_2.jpeg)

Troub	leshooting
Alert Type	MESSAGE
Description and Action	A condition of medium severity that should be attended to as soon as possible
Required	<ul> <li>Auditory alarms sound and screen displays reason and recommended action</li> <li>Infusion continues to operate during alert (unless infusion complete)</li> <li>Available action keys on touchpad         <ul> <li>Mute-silences alarm for 2 minutes</li> <li>Ok-confirms message and returns to previous screen</li> </ul> </li> </ul>
Examples	Low battery Door opened Infusion near end Infusion complete Pump inactive

Alert Type	ALARMS		
	Level 1	Level 2	Level 3
Description and Action Required	<ul> <li>Pump Shuts Down</li> </ul>	<ul> <li>Infusion stops and cannot be resumed</li> </ul>	<ul> <li>Infusion stops but may be resumed</li> </ul>
Examples	<ul> <li>✓ Battery Depleted</li> <li>✓ Internal Error</li> </ul>	<ul> <li>✓ Mechanical error</li> <li>✓ Pump fault</li> <li>✓ Battery Reminder</li> </ul>	<ul> <li>✓ Air in line</li> <li>✓ Cassette misplaced</li> <li>✓ Occlusion- Upstream/ Downstream</li> <li>✓ Flow Error</li> <li>✓ Insufficient Battery</li> </ul>

Problem	<ul> <li>Probable Causes-</li> <li>The charge has become disconnected from the</li> </ul>
	<ul> <li>The charge has become disconnected from the mini-cradle or the power supply</li> <li>The charger is not working</li> </ul>
Solution	<ul> <li>✓ Confirm all power connections are in place</li> <li>✓ Connect the charger to a different power supply (outlet) and reconnect it to the pump.</li> <li>✓ If the Charge is not functioning properly, replace it</li> </ul>

lssue	Recurring Air in Line
Problem	<ul> <li>Probable Causes-</li> <li>Treatment is near end</li> <li>Therapy prone to foaming or effervescence</li> <li>Air detection settings are too sensitive</li> </ul>
Solution	<ul> <li>Minimize shaking prior to administration and allow adequate time for product to warm to room temperature</li> <li>Close clamps, remove administration cassette from pump and prime the set manually. Replace set if manual prime unsuccessful</li> <li>Clean Bubble Detector</li> <li>Air detection settings can only be modified by HomeMed</li> </ul>

lssue	Recurring Occlusion
Problem	<ul> <li>Probable Causes-</li> <li>Occlusion issue has not been properly resolved</li> </ul>
Solution	<ul> <li>Close clamps, remove administration cassette from pump, disconnect from patient and prime the set manually</li> <li>Replace the administration set</li> <li>Change the infusion site</li> <li>Assess catheter for thrombus and treat appropriately</li> </ul>

![](_page_24_Picture_2.jpeg)