



ClearStar
PUMP

Guide to setting up your
Companion ClearStar pump
and feed system



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Book Descriptions:

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Contact Us to Register Your Interest Already a member. The fluid delivery system and safety alarms function when the pump is used by an ambulatory patient, or is mounted on an appropriate feeding stand or pole. The volumemonitoring device does not depend on drop counting, so the pump is versatile in adapting to patient activities. The pump is microprocessor computercontrolled, which provides accurate delivery rates, easytoread displays, and simple controls. A charger unit with a power cord is provided with each Companion ClearStar pump. The charger may be clamped to an appropriate feeding stand or pole, or positioned on a flat surface. The Companion ClearStar Pump offers these features The Companion ClearStar pump has a feature that automatically clears most clogs in the distal tubing outlet of the cassette through the patient's indwelling feeding tube without user intervention. The pump will automatically resume the feeding mode after the clog has been cleared. If the clog is not cleared within 10 minutes the pump will alarm audible and visual and stop pumping. As a safety feature, the pump can only enter the automatic clog clearing mode for a maximum of 10 minutes for any single occurrence and for a maximum of 20 minutes or 10 occurrences in any consecutive 4hour period. Each time the pump is turned on the LCD displays rAtE value, doSE value and FEed value. Use of the Companion ClearStar Pump for paediatric patients should only be done on the advice of a physician trained in paediatrics. Intestinal tolerance and overall fluid balance of the paediatric patient should be considered when selecting the pump. All enteral pumps may bolusfeed small amounts which is an important consideration when feeding volumesensitive patients. If reconstituted powder feed is used, ensure that the product is mixed thoroughly. Pump Display Panel Control Shows flow rate, Select pump set dose functions. <http://nozhi-dick.ru/userfiles/evinrude-9122r-manual.xml>

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VOLUME FED LO VOL CLEAR Turn control to VOLUME FED and press Vol Clear twice to zero volume. Cassette Release Latch Press down to release cassette for removal. No pumping action occurs in this mode. SET DOSE This setting allows dose to be limited 1 to 9999 mL in 1mL increments by pressing the arrow keypad buttons. Completion of this dose triggers DOSE alarm. NOTE If zero dose is entered 0, this feature is deactivated. RUN This is the ONLY setting that activates pumping action. HOLD This setting stops pumping action and audio alarm if one has occurred without erasing previous commands or memory functions. HOLD is used when correcting an alarm condition, or whenever feeding is temporarily interrupted such as when connecting a new feeding container. VOLUME FED This setting stops pumping action and displays accumulated numerical value of volume fed in mL since pump power was turned on, or this value was last cleared. NOTE if 9999 mL is fed numerical value turns to 0 and a new accumulation begins. To clear the VOLUME FED press the VOL. CLEAR touchswitch twice. NOTE Pump activates flow only in RUN setting. The visual display LOW ALARM indicates alarm volume level is low. If louder alarm volume is desired, select HI on volume switch, lower right front corner of pump face. Visual Display Cause of Audio Alarm Action OCCL Flow has stopped. Automatic clog clearing has not cleared the obstruction. Turn control dial to HOLD. Check pump set tubing and patient's indwelling feeding tube for flow restriction, e.g. kinked tubing. This is a distal occlusion alarm between the pump and the patient. Verify that the occlusion is cleared after restarting the pump by verifying the presence of drops in the sight chamber. EMPTY Empty feeding container or missing or improperly seated cassette. Check the fluid, fluid container, the set tubing between the container and the pump for particle accumulation or tube kinks that would prevent fluid flow. <http://cnk-company.com/userData/board/evinrude-90-hp-service-manual.xml>



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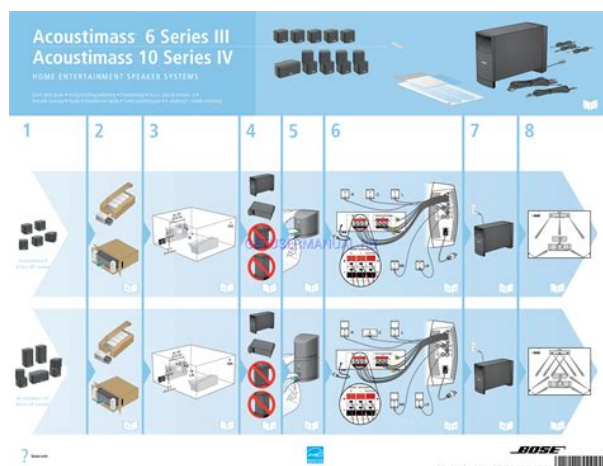


Assure that cassette is present and properly seated. Press keypad arrow buttons to increase dose or to zero dose setting or turn dial to VOLUME FED and press the VOL. CLEAR touch switch twice. To silence alarm, turn dial to HOLD. SELECT RUN Pump is on, but control dial is not set to RUN. Pump was left in setting other than POWER OFF or RUN for longer than 5 minutes. If pumping is desired, turn dial to RUN. If additional time is desired in HOLD, turn dial briefly to RUN, then to HOLD. Alarm will sound again in 5 minutes. If feeding is completed, turn dial to POWER OFF. 10 Page 11
LOW BATTERY Approximately 30 minutes of battery power remain Turn the control dial to HOLD, then back to RUN to stop audio alarm. NOTE In case microprocessor or motor malfunctions, pump will stop pumping action, all visual displays will cease, and a continuous audio alarm will be sounded. Continuous alarm will not cease even if pump dial is turned to HOLD. The pump weighs 0.60 kgs; the charger weighs 0.70 kgs. With the Ambulatory Transporter, a patient can easily carry the pump and up to 500 mL of enteral formula during routine activities. Position Independent The Companion ClearStar Pump fluid delivery and alarm systems will function when the pump is in any position that might be customary for ambulatory use. SelfTest Procedure Each time the pump is turned on, the microprocessor initiates a selftest procedure. Audio alarm, visual displays, and readout 8888 will turn on for 5 seconds followed by the numerical values of rate, dose and volume fed in memory. If the selftest fails, F1 will appear. Sets are disposable and for single use only. They should be replaced at least every 24 hours or more frequently as needed to avoid enteral product contamination. Sets other than Companion ClearStar pump sets are not suitable for use. Please contact your local Abbott Representative for information on set availability.

In order to separate the pump and charger; locate the pump release latch on the back of the charger within handle cavity. Pull pump towards opening while pressing the latch in the same direction until pump is free. Grasp pump securely to withdraw it from charger. To Reconnect With pump display panel facing outward, slide pump into charger, using builtin guides for alignment. Slide pump in until it snaps into position, and then verify that it is locked in place. When properly seated, pump case will not protrude from charger. Pole Clamp. Note — Pump must be inserted into charger for pole attachment. Pole Clamp mechanism is controlled by knob on right side of charger. Align pole

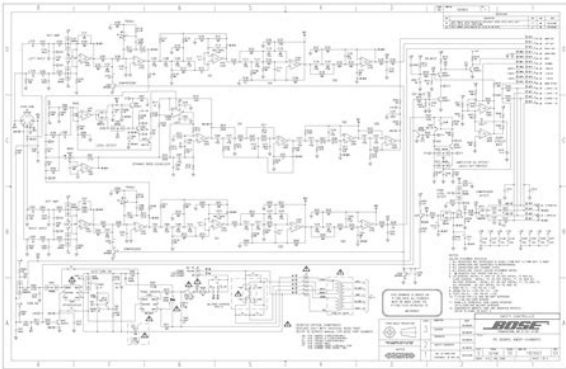
cavity located at back of charger with pole; turn knob clockwise until pole is firmly captured.

Instructions For Use The Companion ClearStar pump has an automatic memory retention feature which stores feeding rate, dose set and volume fed. When the pump is turned on SET RATE it will go through a selfcheck 3 BEEPS OF THE ALARM. To change the values in memory SET RATE or SET DOSE turn the dial to the setting and change through the arrow buttons. To clear Volume Fed turn the dial to VOLUME FED and press the VOL. CLEAR touchswitch twice. 12 Page 13 1. 1. Attach to, or place on, appropriate feeding stand or pole. See battery operation section. 3. 3. Prepare enteral feed. Hold the cassette with the tubing up and the bellows down. Compress the bellows of the cassette repeatedly until the fluid has expelled all the air from the cassette and tubing. Firmly tap the cassette to dislodge any remaining air bubbles that may or may not be visible. Warning Proper priming is critical since air in the cassette will reduce the volume delivered, and the amount delivered will be less than indicated on the volume fed display. NOTE You may leave 2 to 3 inches near the end of the tubing unprimed to avoid product dripping during the setup. 14 Page 15 7.



<http://www.jfvtransports.com/home/content/boss-ce-1-manual>

CONFIRM PROPER PLACEMENT AND FUNCTION OF PATIENT'S ENTERAL FEEDING TUBE NASOGASTRIC, JEJUNOSTOMY, GASTROSTOMY, ETC. Attach connector to enteral feeding tube. Right Wrong 8. Insert cassette into pump, using shape for orientation. Press until cassette clicks into place. If no improvement, use a new tubing set. NOTE If no dose is entered 0mL this feature is deactivated. 15 Page 16 11. Turn pump control dial to RUN and start feeding. If cassette is not properly seated, the EMPTY alarm will sound after a short delay. NOTE Always check the drip chamber of the Companion ClearStar Pump Set when starting feed, to verify that the feed is dripping before leaving the patient. If no drops are detected, check the fluid, fluid container, the set tubing between the pump and the enteral feeding container and the patient's feeding tube for particles, clumping or kinking that would prevent fluid flow. 12. To see feed volume delivered, turn dial to VOLUME FED. 13. To clear the feed volume delivered turn dial to VOLUME FED and press the VOL. CLEAR touchswitch twice. 14. Turn pump dial back to RUN to restart feeding. NOTE If alarm sounds, turn pump dial to HOLD. Correct alarm condition indicated by visual display, then turn pump dial to RUN to restart feeding. 15. When feeding is completed, turn pump dial to HOLD or POWER OFF. NOTE Pump stops and sounds an alarm automatically when the container is empty. If the DOSE function is in use, the pump will stop, sound the alarm and alternately display the message doSE and the volume fed in mLs. 16. When desired, disconnect pump set tubing from patient's enteral feeding tube, release cassette from pump by pressing release latch downward, and discard set and container. PRECAUTIONS To avoid enteral product bacterial contamination use a new Companion ClearStar Pump set at least every 24 hours or more frequently as needed. For Single Patient Use Only.



16 Page 17 Battery Operation When pump is disconnected from base charger, power is being supplied by the internal rechargeable sealed leadacid battery. There is no routine maintenance required for the battery. Replace only with battery sourced through your local Abbott Representative. Battery is accessible by removing battery cover located in the back of pump. WARNING In a situation where the battery is discharged and AC power fails during feeding, the pump will shut down and no alarm will be given. 2. While pumping in battery mode, the display back light will turn off after approximately 15 seconds to save power. Press the light symbol in the lower right corner of the pump front panel to turn on the display back light. 3. When the LOW BATTERY message first appears, the pump will run for approximately 30 minutes before shutting down completely. Battery operation time will diminish with partially charged or older batteries. The battery will charge in any control dial setting including the "OFF" position. Checking Pump Function 1. To check SET RATE function turn main control dial to the SET RATE position. Watch for upward movement of the black piston at the bottom of the cassette chamber pump strokes. After two pump strokes, "EMPTY" will display and an audio alarm will sound. Select HOLD, audio alarm is muted. "EMPTY" no cassette alarm is OK. 3. To check EMPTY no feed alarm, fit an empty cassette into the pump. After approximately 9 strokes, "EMPTY" will display and an audio alarm will sound. Select HOLD audio alarm is muted. "EMPTY" no feed alarm is OK. 4. To check the distal occlusion alarm, remove the empty cassette and prime the Companion ClearStar Set with water or feed. See Instructions For Use section. After approximately 10.75 minutes "OCCL" will display and an audio alarm will sound. OCCLUSION alarm is OK. 5. Stroke timing can be checked by testing the stroke interval time. Repeat test four but do not occlude the tubing.



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The stroke interval should equal 6 seconds. Stroke timing is OK. Please use a new Companion ClearStar Pump Set for this test. 51 cm The height of the enteral feeding bag, diameter of the feeding tube, and feed viscosity are three variables that can affect the flow rate. To check the flow rate, use the following procedure. Fill the container with the enteral product and set the bag so that the level indicator on the sight chamber is 51cm above the cassette. See diagram. Set up pump per the instructions for use section. The volume delivered should be between 90 and 110 mLs. If the volume delivered is outside this range, repeat the procedure with a new administration Companion ClearStar Pump Set. If it is still out of range, the pump should not be used. Cleaning The pump and charger are specifically designed for easy cleaning. Remove the pump from the charger for cleaning. Clean the outside surfaces, behind the pump, inside the charger cavity and the cassette release lever with warm, soapy, water. Dry thoroughly. For troublefree operation, the surfaces should be cleaned immediately after spills occur. The cassette cavity can be cleaned with a cotton swab or soft cloth and warm, soapy water. Do not clean cassette cavity with alcohol. Dry thoroughly. Be sure no soap film or residue is left in the cassette cavity. Disinfectants Recommended for all external parts and surfaces. Allow to air dry after disinfecting. General Cidex Arbrook Inc. PhisoHex Winthrop Breon Laboratories Hibiciens Stuart Pharmaceuticals Isopropyl alcohol AIDS and Hepatitis 10% concentration of 5.25% sodium hypochlorite household bleach Tuberculosis 2% Cidex 2% Gluteraldehyde These recommendations for disinfecting the pump are not substitutes for official procedures that may differ among institutions. Contact the local infection control officer to determine proper procedure in your institution. Storage The pump should be stored away from excessive heat, cold or humidity.

Be sure the pump dial is in the POWER OFF CHARGE position. Pumps against 193 kPa max. back pressure in clog clearing mode, before occlusion alarm. Suitable for CONTINUOUS operation. Ambulatory Transporter Ambulatory transporter enables patient to carry pump, bag and tubing without an IV pole. Shoulder or Neck Strap Waist Strap COMPANION ClearStar Ambulatory Enteral Nutrition Bag 500ml with preattached COMPANION ClearStar Pump Set Removable, Washable Tray Pump 2 Zippers Tubing Pump Access Flap Velcro Closure Durable Nylon Material 22 Page 23

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