



HEARTMATE 2 CONTROLLER EXCHANGE QUICK GUIDE

1. Can I do CPR?

Yes, in the right clinical scenario. Chest compressions may pose a risk of dislodgement - use clinical judgment. If compressions are administered, confirm function and positioning of the pump.

2. Does the patient have a pulse with this device?

Likely they will not because it is a continuous flow device, however some patients may have a pulse.

3. Can the patient be defibrillated, cardioverted and paced while connected to the device?

Yes, you can defibrillate, cardiovert and externally pace per protocols and do not have to disconnect anything.

4. Can the same doses of emergency medications be given?

All ACLS drugs may be given at the same doses.

5. What type of alarm occurs in a low flow state?

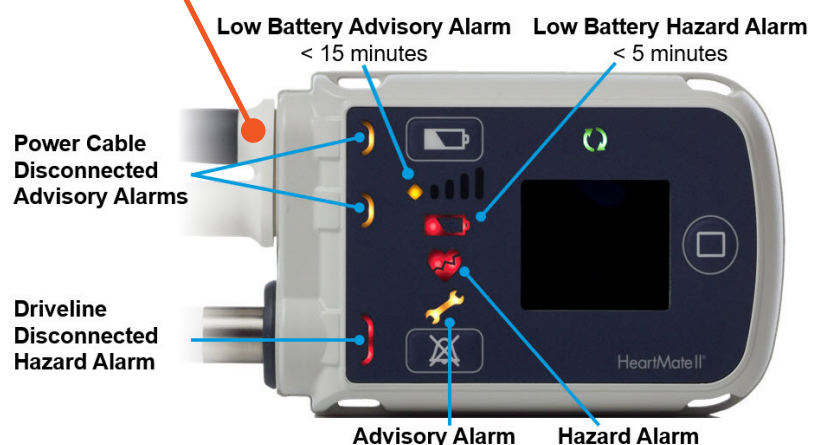
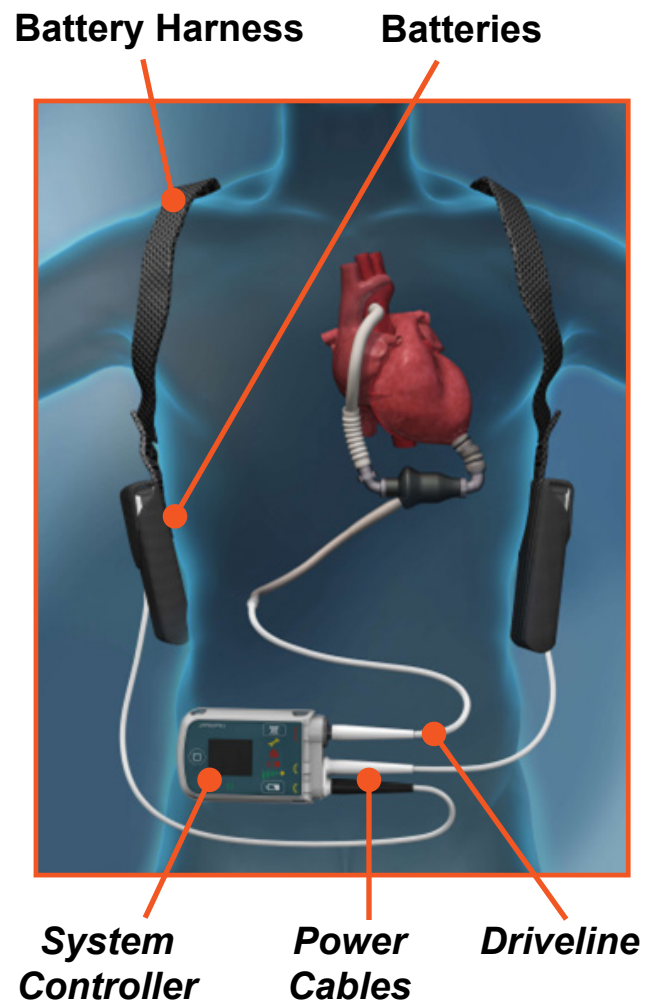
A red heart alarm indication and steady audio alarm will sound if less than 2.5 lpm. Can give a small bolus of normal saline at provider discretion and transport to a VAD center.

6. What are acceptable vital sign parameters?

MAP 70-90 mmHg with a narrow pulse pressure.

7. Can I change the speed of the device?

No, it is a fixed speed.

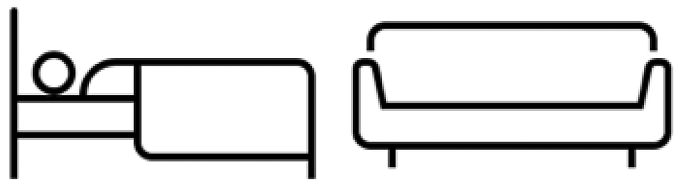


8. What is the best way to transport a patient with this device?

Patients and all their equipment are safe to travel by any means of transport including flight. Avoid twisting, kinking or pulling the driveline. Transport to a VAD center whenever possible. Allow LVAD trained caregiver to travel with patient whenever possible.

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1. Have the patient lie down, given pump will stop momentarily during the exchange. Gather replacement controller.



2. **POWER:** Disconnect **WHITE** power lead on original controller, set aside. Using same power source connect **WHITE** power lead on replacement controller.



3. **PUMP/PATIENT:** Place both controllers face down. On original controller, slide safety lock so **RED** release button is fully visible. Disconnect driveline by pressing **RED** release button and pull driveline straight out, connect to replacement controller by lining up **YELLOW ARROWS** and firmly press into place. Turn over controller and confirm that pump running symbol is illuminated. This may take up to 10 seconds. If pump does not restart, ensure power source is charged and connected properly, ensure driveline is fully engaged by gently tugging on the metal end near the controller.



4. **POWER:** Disconnect **BLACK** power lead from original controller, set aside. Using same power source connect **BLACK** power lead on replacement controller.

5. **SLEEP:** Place original controller in sleep mode by pressing the battery button for 5 seconds until display screen has gone black.



HEARTMATE 2 EPC EXCHANGE QUICK GUIDE

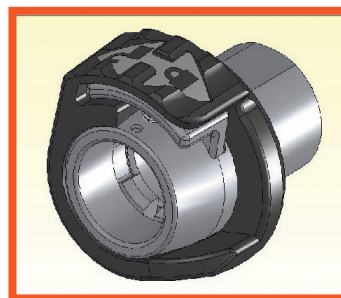
1. Have the patient lie down, given pump will stop momentarily, during the exchange. Gather replacement controller.



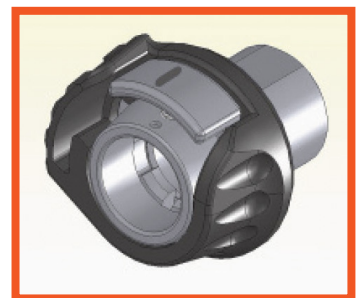
2. POWER: Disconnect WHITE power lead on original controller, set aside. Using same power source connect WHITE power lead on replacement controller.



3. PUMP/PATIENT: Place both controllers face up. On original controller, slide perc lock into the unlocked position. Disconnect driveline by pressing metal release button and pull driveline straight out, connect to replacement controller by lining up the BLACK mark on release button with the arrow on the driveline and firmly press into place. Slide perc lock into the locked position. Confirm that the GREEN power symbol is illuminated. If pump does not restart, ensure power source is charged and connected properly, ensure driveline is fully engaged by gently tugging on the metal end near the controller.

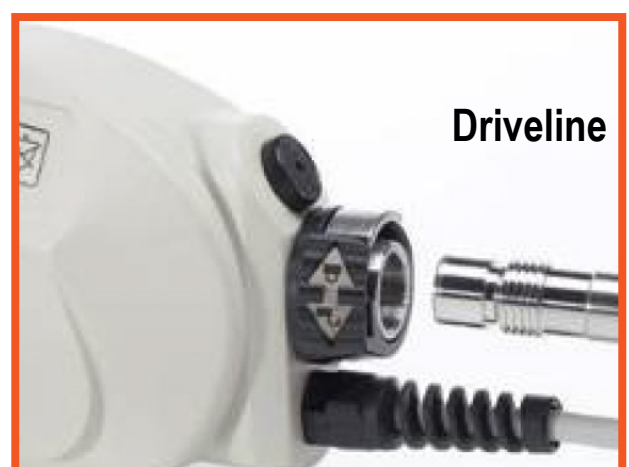
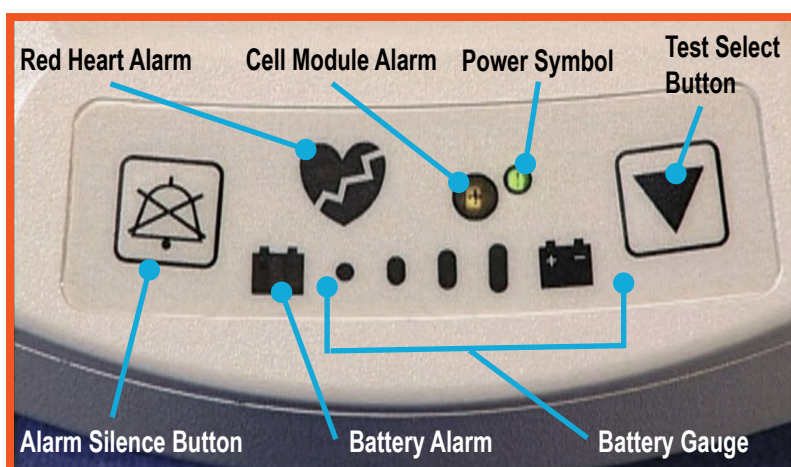
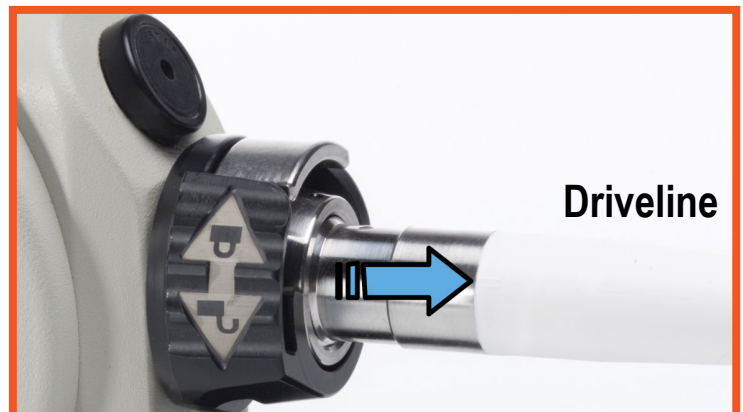


LOCKED



UNLOCKED

4. POWER: Disconnect BLACK power lead from original controller, set aside. Using same power source connect BLACK power lead on replacement controller.



International Consortium of Circulatory Assist Clinicians

This guide was created in 2008 by the innovation of VAD Coordinators from some of the largest and most successful VAD implantation hospitals across the globe. ICCAC has ensured that this document continues to be a current resource for not only emergency medical services but to all healthcare workers providing care to the mechanical circulatory support patient population. The purpose is to be a quick emergency guide and should not replace the manufacturers' Instructions For Use as the primary source of information for each device listed in this guide.