

HeartMate 3 ®

Mobile Power Unit

The Mobile Power Unit (MPU) is a portable power source that can be used to connect your HeartMate 3 ® system wherever power is available. The mobile power unit has the following functions:

- Provides power to your System Controller and pump.
- Displays the same alarm tones as your System Controller.

When should I connect to the MPU?

Use the mobile power unit while you are relaxing indoors and **always** when sleeping. You **must be connected** to the MPU when sleeping, or when there is a chance you will fall asleep as you may not hear the low battery alarms on your System Controller.

What are the components of the Mobile Power Unit (MPU)?

The MPU has two components that are required for connection to your System Controller:

- MPU with batteries inserted
- MPU AC power cord



Mobile Power Unit



AC power Cord

How do I set up the MPU for use?

Before using the MPU, you must prepare it for use. Below are two tasks you need to complete to prepare your MPU for use.

Insert or Replace the MPU Batteries

1. Place the Mobile Power Unit on a flat, sturdy surface
2. Check to be sure the power cord is unplugged from the Mobile Power Unit.
3. Inspect the Mobile Power Unit for dents, chips, cracks, or other signs of damage. Do not use a Mobile Power Unit that appears damaged. Contact the VAD team if a replacement is needed.
4. Use a flathead screwdriver or coin to loosen the screw from the rear panel. The screw will remain in the screw hole to ensure it is not lost. (See figure 1)



Figure 1 - loosen the screw

5. Open the battery compartment cover on the rear of the Mobile Power Unit and dispose of the battery installation reminder tag, if present. (See figure 2)



Figure 2 - remove the battery compartment cover

6. If replacing the batteries, pull the ribbon to remove the depleted batteries out of the case.
7. Lay the ribbon on the bottom of the compartment. Place the Alkaline AA batteries in the battery compartment. Orient the batteries as shown on the orientation markings on the battery clip (See figure 3)



Figure 3 - replace the batteries

8. Replace the battery compartment cover.
9. Use the flathead screwdriver or coin to tighten the screw. Make sure the screw is tight and the cover is securely closed. (See figure 4)



Figure 4- tighten the screw

Connect the Power Cord

1. Place the Mobile Power Unit on a flat, sturdy surface.
2. Pick up the black AC power cord.
3. Plug the female end of your power cord into the power entry module on the Mobile Power Unit.



4. Pull back on the end of the power cord to be sure you have a secure connection to the Mobile Power Unit. (See figure 5)



Figure 5 - pull back to ensure a secure connection

5. Plug the Mobile Power Unit into an AC electrical outlet that is dedicated to Mobile Power Unit use.
6. Check the top panel of the Mobile Power Unit. When initially connected to power, the Mobile Power Unit automatically performs a self-test, the green power symbol is illuminated, and the yellow wrench and Replace MPU Battery lights flash, and the Mobile Power Unit beeps twice. After the self-test, the green "Power On" light should remain lit (See Figure Below). The Mobile Power Unit is ready for use.



Green Power Symbol

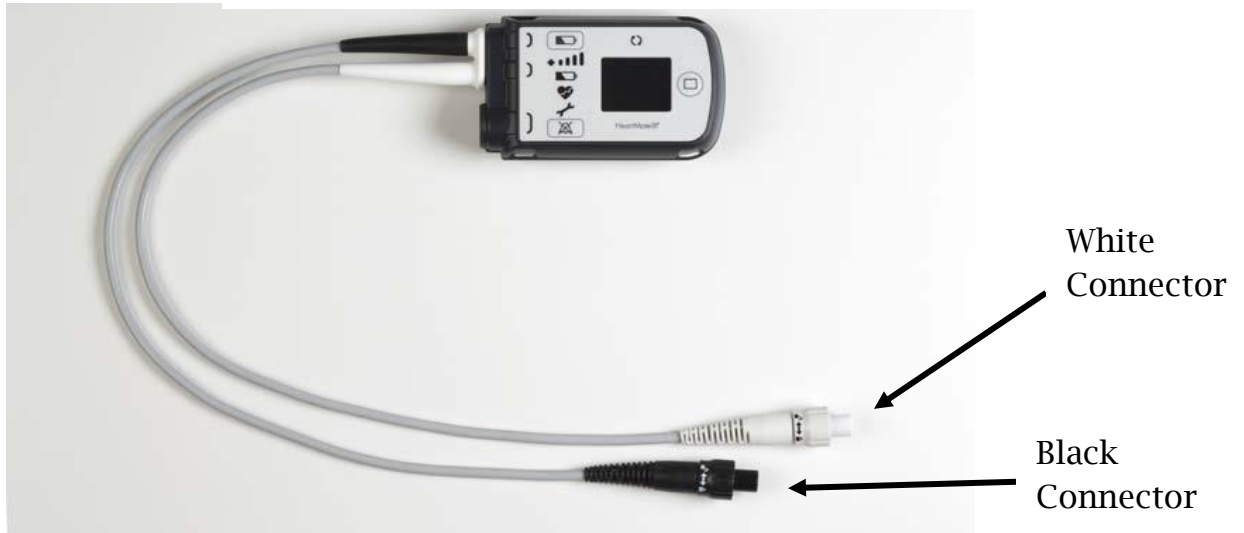
7. If the green "Power On" light does not light up, complete the following steps:
 - a. Plug the Mobile Power Unit into a different AC electrical outlet that is dedicated to Mobile Power Unit use.
 - b. Observe the top panel of the Mobile Power Unit and complete one of the following steps:
 - If the green light does not illuminate and the functions described in Step 5 occur, the Mobile Power Unit is ready for use.

- If the green light still does not illuminate, call the VAD team. The Mobile Power Unit may have a problem. Do not use it.

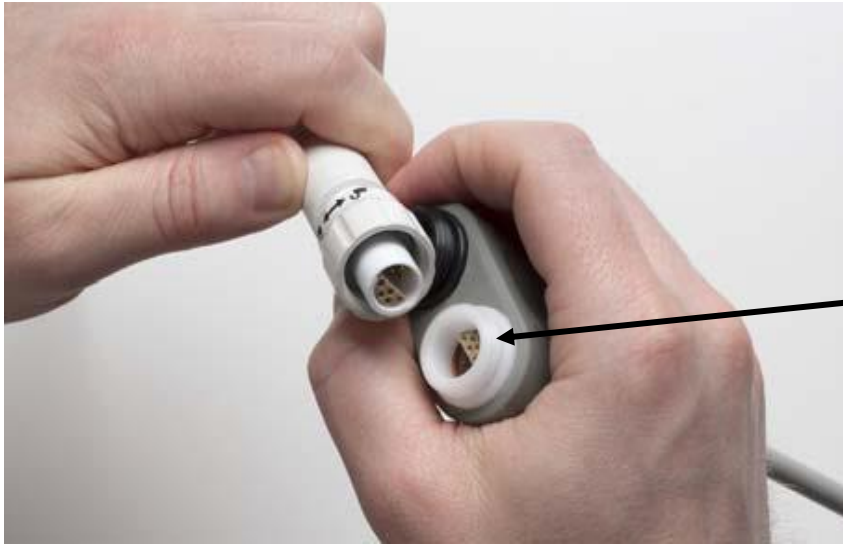
How do I connect the System Controller to the MPU?

1. Gather equipment; place within easy reach.
2. Confirm that the Mobile Power Unit is ready for use (see “How do I set up the MPU” section above).
3. Place the black and white System Controller power cable connectors within easy reach.

System Controller Power Cable Connectors

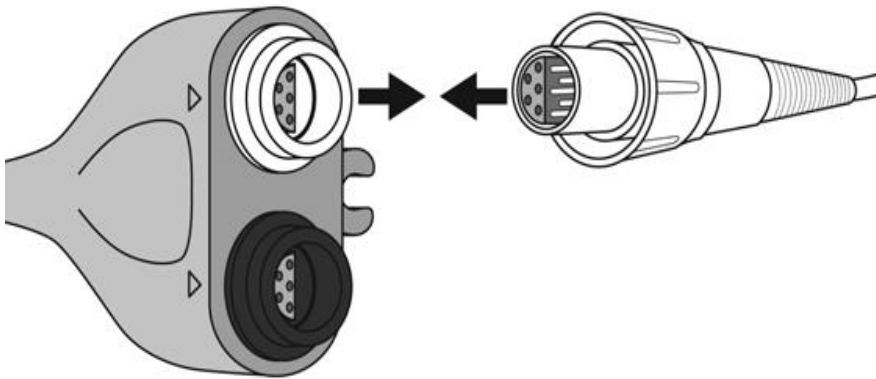


4. Place the black and white Mobile Power Unit patient cable within easy reach.
5. Place the batteries with their attached battery clips within easy reach.
6. Unscrew and disconnect only the white System Controller power cable connector from the attached battery clip. **Do not** remove the black connector!
7. Promptly align opposite half circles inside the white System Controller power cable connector and the white Mobile Power Unit patient cable connector.



Carefully Align
the Connectors

8. Firmly push together the two connectors.



9. Tighten the connector nut until secure (See figure 6). Hand tighten only—do not use tools.



Figure 6 - tighten the connector nut

10. Unscrew and disconnect only the black System Controller power cable connector from the attached battery clip.
11. Promptly align opposite half circles inside the black System Controller power cable connector and the black Mobile Power Unit patient cable connector.
12. Firmly push together the two connectors.
13. Tighten the connector nut until secure. Hand tighten only—do not use tools.
14. Both System Controller power cables are now connected to the Mobile Power Unit (See figure 7)

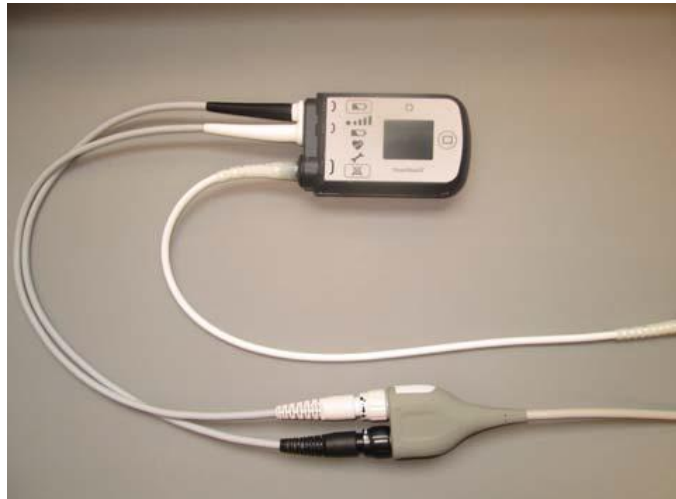


Figure 7 - System Controller Power

How do I clean the MPU?

You should clean the exterior surfaces of your MPU once a month. We recommend you do this on the first Monday of each month. Follow these steps to clean your MPU:

- Change to battery power.
- Unplug all connections.
- Clean the exterior surfaces of your Mobile Power Unit using a mild detergent, and a clean, damp (not wet) cloth.

WARNING:

- Never clean the Mobile Power Unit while it is providing power to the Pump.
- Do not put the Mobile Power Unit into water or liquid.

How do I maintain the safety of my MPU equipment?

The MPU requires little planned maintenance. However, you do need to inspect it routinely to ensure the safest and best possible performance. Below are the tasks that need to be completed.

1. Inspect the Mobile Power Unit power cord, used to connect the Mobile Power Unit to the AC electrical outlet, for damage or wear **weekly**.
 - Confirm that the cord is not kinked, split, cut, cracked, or frayed. Do not use the cord if it shows signs of damage.
 - Get a replacement power cord from the VAD team, if needed.
2. Inspect the Mobile Power Unit patient cable, used to connect the System Controller to the Mobile Power Unit, for damage or wear **weekly**.
 - Confirm that the cable is not kinked, split, cut, cracked, or frayed. Do not use the Mobile Power Unit patient cable if it shows signs of damage.
 - Get a replacement patient cable from your hospital contact, if needed.
3. Inspect the Mobile Power Unit patient cable and power cable connector pins and sockets for dirt, grease or damage **every month**.
 - If the pins or sockets are damaged or contaminated, do not attempt to clean them. Report the condition to your hospital contact.
 - Cleaning and service should be performed only by Thoratec-trained personnel. Do not attempt to clean or repair equipment on your own.

If the Mobile Power Unit is going to be stored for over 1 month, remove the Mobile Power Unit batteries.

What safety precautions should I take?

It is important to be aware of the safety precautions you must take when you are making connections/disconnections to the mobile power unit. In your patient handbook, you will find these precautions listed on pages 79-81

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