














| Priority | System Controller Screen | Active Symbols | Alarm Means | To Resolve Alarm |
|----------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H A Z A R D | Call Hospital Contact ⊖ :07 + Low Flow ⊖ :03 |  +  | Pump is off. The Pump Running symbol is black. | <ol style="list-style-type: none"> 1. Check if the fixed speed setting is below 4,000 rpm AND the System Controller's backup battery is not installed. Under these conditions, the pump can only be started from the System Monitor's Clinical or Settings screen by pressing the Pump Start button. Otherwise, press any button on the System Controller to attempt pump start. 2. Switch to the backup System Controller and attempt to restart the pump. 3. Clinically evaluate the patient. |
| | Call Hospital Contact ⊖ :07 + Low Flow ⊖ :03 |  +  | Low flow, flow is less than 2.5 lpm | <ol style="list-style-type: none"> 1. Ensure that the Driveline is connected to the System Controller. 2. Ensure that a power source is connected to the System Controller. 3. Clinically evaluate the patient. |
| | Connect Driveline ⊖ :02 |  +  +  | Driveline is disconnected. The Pump Running symbol is black. | <ol style="list-style-type: none"> 1. Immediately reconnect the Driveline to the System Controller and move the Driveline safety lock on the System Controller to the locked position. Also check that the Modular inline connector is secure. 2. If the alarm persists after reconnecting the Driveline, press any button on the System Controller to attempt pump start. 3. If the alarm still persists, check if the fixed speed setting is below 4,000 rpm AND the System Controller's backup battery is not installed. Under these conditions, the pump can only be started from the System Monitor's Clinical or Settings screen by pressing the Pump Start button. 4. If the Driveline is connected and the alarm persists, replace the System Controller with a configured backup System Controller. |
| | Connect Power Immediately ⊖ :05 + Backup Battery ⊖ :01 |  +  +  | Both power cables are disconnected. | Immediately connect to a working power source (Power Module, Mobile Power Unit, or two HeartMate® 14 Volt Lithium-Ion batteries). |
| | Call Hospital Contact Controller Fault |  +  | System Controller Hardware Fault (Microcontroller Failure) | <p>No active symbols (constant audio tone).</p> <ol style="list-style-type: none"> 1. Immediately switch to the backup System Controller. 2. Provide the patient with a new System Controller. |
| | Low Battery ⊖ :06 + Replace Power Immediately ⊖ :02 |  | Low Battery, Power Input is extremely low with less than 5 min. remaining. | Immediately connect to a working power source (Power Module, Mobile Power Unit, or two fully-charged HeartMate 14 Volt Lithium-Ion batteries). |




HeartMate 3™

Left Ventricular Assist System

Alarms for Clinicians


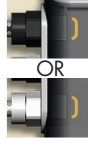
















For additional information and guidelines, please refer to the HeartMate 3 Instructions for Use.


Important! The Pump Running () symbol is lit green when the pump is running.

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Thoratec Corporation continually strives to provide the highest quality products for mechanical circulatory support. Specifications may change without notice. Therefore, please refer to the HeartMate 3 Left Ventricular Assist System Patient Handbook shipped with the HeartMate 3 for the most current information regarding indications, contraindications, warnings, and cautions. Thoratec, the Thoratec logo, and HeartMate are registered trademarks and HeartMate 3 and HeartLine are trademarks of Thoratec Corporation.
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| Priority | System Controller Screen | Active Symbols | Alarm Means | To Resolve Alarm |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A D V I S O R Y |  |  | One of the two power cables is disconnected. | Promptly connect the disconnected power cable to power source (functioning Power Module, Mobile Power Unit, or two fully-charged HeartMate® 14 Volt Lithium-Ion batteries). |
| |   |  | Low battery—power input is low, with less than 15 min remaining. | Promptly connect to a working or different power source (Power Module, Mobile Power Unit, or two fully-charged 14 Volt HeartMate Lithium-Ion batteries). |
| |  |  | System Controller Hardware Fault | <ol style="list-style-type: none"> 1. Switch to the backup System Controller. 2. Provide the patient with a new System Controller (with backup battery installed). |
| |  |  | Communication Fault (Comm Fault) | Contact Thoratec Corporation to determine best next steps. Use the System Monitor to silence the alarm while awaiting resolution, if needed. Note: The alarm must be active to access the extended alarm silence for this situation. |
| |  |  | System Controller Backup Battery Fault | Replace the 11 Volt Lithium-Ion backup battery. Note: If replacing the battery does not resolve the alarm, the System Controller may need to be replaced or additional steps may be required. Call Thoratec Corporation with questions. |
| |   |  | System Controller Backup Battery Not Installed | <ol style="list-style-type: none"> 1. Install the 11 Volt Lithium-Ion backup battery in the System Controller. 2. Obtain a new backup battery replacement kit. Note: If replacing the battery does not resolve the alarm, the System Controller may need to be replaced or additional steps may be required. Call Thoratec Corporation with questions. |
| |  |  | Driveline Power Fault | Contact Thoratec Corporation to determine best next steps. Use the System Monitor to silence the alarm while awaiting resolution, if needed. Note: The alarm must be active to access the alarm silence for this situation. |
| |  |  | Driveline Communication Fault (Driveline Comm Fault) | Contact Thoratec Corporation to determine best next steps. Use the System Monitor to silence the alarm while awaiting resolution, if needed. Note: The alarm must be active to access the alarm silence for this situation. |

Important! The Pump Running () symbol is lit green when the pump is running.