

Situation 9 Low Battery Fault: SEVEN flashes of the status LED

If you encounter a power chair with seven flashes, the batteries are nearly discharged. The battery either needs charging or there is a bad connection to the battery.



Always assume that the batteries need to be recharged.

Plug the power chair into a standard wall outlet. Allow the batteries to charge 8 - 14 hours. The battery indicator should return to a full charge and the power chair should work properly. If this is not the case, the total battery voltage is less than 18 volts.

Perform a standard battery load test on each battery. If they check good under a load, test the battery charging system. Use tests from Situation 1 and replace the appropriate component.

Situation 10 High Battery Voltage Fault: EIGHT flashes of the status LED

Eight flashes indicate high battery voltage. This only appears if the output of the battery charger is over 32 volts. In order for the controller to interpret a high battery voltage, the batteries must read in excess of 16 volts each.

In order to test the voltage output, unplug the white 3-pin connector of the battery charger from the black 3-pin connector of the charger harness and take a voltage reading from the two outside pins of the white 3-pin connector. See figure 2.78.

If the charger is operating properly, you should read approximately 25 to 30 volts.



When taking the output voltage from the charger, allow the reading to normalize before documenting the reading.

The meter reads _____ volts DC.



Figure 2.78. Charger Output Harness



If charger output exceeds 30 volts, replace the charger.

Situation 11 CANL Fault: NINE flashes of the status LED

Nine flashes indicates that the system has detected an invalid voltage on the DXBUS CANL line.

To check for this fault, perform a continuity test of the DXBUS harness.



If the harness has continuity on all four pins of the harness the problem could lie in the power module. In this case you will need to replace the power module.

Situation 12 CANH Fault: TEN flashes of the status LED

Ten flashes of the status LED indicates that the system has detected an invalid voltage on the DXBUS CANH line. When this occurs communication is not possible between the RemG80 and the power module.

Check for continuity from the four pins located on one end of the DXBUS harness to the four pins located in the opposite end of the DXBUS harness.



If you do not have continuity, replace the harness, if you do it could be a problem with the power module. If this is the case you will need to replace the power module.

Another cause of this fault would be if the hazard lights were turned on when the Dynamic system was turned on. If this is the case, turn the hazard lights off and cycle the power off and then on again and see if the fault is still occurring.

Situation 13 Stall Timeout Fault: ELEVEN flashes of the status LED

Eleven flashes of the status LED occurs when the motor current has been at, or is close to the current limit for longer than the Stall Timeout Parameter value. The Dynamic system has a feature called a Stall Timeout Parameter, which in turn means that the controller has a time limit in which current from the motors is allowed before the controller faults to protect the motors and control system.

To test if this fault is caused by the wheels binding up, place the power chair in freewheel and see if it rolls freely with no drag from the wheels. If there is a drag the resistance could be caused by an internal gear problem with the motors, or something is binding the wheels. If this is the case replace the component which is binding up and causing the drag.

Another possibility is that the chair is binding up while driving.

This can be caused by operating the power chair while it is bound by an obstacle. The Dynamic controller is designed to protect the motors and electronics by stalling out the chair.



Stall out is when the controller disables the drive functions and displays an error on the status LED.

This can be reset by correcting the source of the fault and cycling the power off and on again.

Situation 14 Module Mismatch: TWELVE flashes of the status LED

Twelve flashes of the status LED occur when the data held by the RemG80 is incorrectly programmed for the power chair it is being used on.

Try having the RemG80 joystick reprogrammed for the specific model of power chair and the accessories that go with the chair.

Another problem could be compatibility between the Dynamic modules in the system. If this happens, the power chair will be disabled by the electronics. If this happens, assure that the programming is correct for the chair and the accessories on the chair.



In this case, contact Pride Power Chair Technical Service at 1-877-800-1248.

Notes:

Adjusting the Programming

All power chair models are programmable power base chairs. This means that the internal programming of the electronics can be adjusted to accommodate the needs of an individual patient. Adjusting the pre-programmed factory settings requires the use of a HHP programmer. This programmer will allow you to adjust the internal performance settings of the power chair and will also help in some areas of troubleshooting and maintenance. See Appendix G.

The HHP is used exclusively with the Dynamic control system and the DL-50 system.

Notes:

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.