

Applies to:

Enigma Energi Powerchairs (pre June 2004)
(Product codes: PC16 / PC18 / PC20)

Diagnostics

The Enigma Energi is fitted with a Controls Dynamics DL controller setup (shown right). It is user friendly in terms of a user diagnosing faults without having to have an engineer attend the vehicle. The controller diagnoses faults then displays them by flashing all the LEDs on the battery gauge in a sequence. The LEDs will flash a number of times in short succession and then pause. This sequence is then repeated.



1. Low battery voltage.
2. High battery voltage.
3. Left motor (or connection) fault.
4. Right motor (or connection) fault.
5. Left/right park brake (or connection) fault
6. Controller fault
7. Motor stalled or joystick OONAPU
(Out of Neutral at Power Up)

Flash Code Sequence

```

• _ • _ • _
•• _ •• _ •• _
••• _ ••• _ •••
•••• _ •••• _
••••• _ ••••• _
•••••• _ •••••• _
    
```

• = flash
_ = pause

To simplify the above diagnostic display, should a low voltage fault be diagnosed by the controller, after a short burst of flashes, all six LED's would flash on and off once, pause, then flash on and off once pause and so on. However, should the controller diagnose a joystick fault, again after a short burst of flashes, all six LED's would flash on and off seven times, pause, flash on and off a further seven times etc... etc...

If more than one fault exists then the fault having the highest priority (and lowest number of flashes) is indicated. All faults will disable the controller and require it to be turned off and back on to restart it, even if the source of the fault is removed.