

## 5.4 HHP Fault Codes with sub codes

| Code | Fault source | Sub code | Meaning   |
|------|--------------|----------|---|
| 01   | User         | 01       | Out Of Neutral At Power Up (OONAPU) testing going on <ul style="list-style-type: none"> <li>Release the throttle and wait for the test to be finished</li> </ul>  |
|      |              | 02       | A warning is being displayed on the Battery Gauge   |
|      |              | 03       | Chair needs to be serviced <ul style="list-style-type: none"> <li>Contact your service agent</li> </ul>   |
| 02   | Battery      | 00       | Voltage too high <ul style="list-style-type: none"> <li>Batteries may be overcharged: if driving downhill, slow down</li> </ul>   |
|      |              | 01       | Voltage too high – emergency stop occurred <ul style="list-style-type: none"> <li>Batteries may be overcharged: if driving downhill, slow down</li> </ul>   |
| 03   | Motor        | 00       | Short circuit <ul style="list-style-type: none"> <li>Check the motor cables for damage</li> <li>Motor brushes may be too stiff, bouncing against the case <ul style="list-style-type: none"> <li>Replace motor brushes or motor</li> </ul> </li> </ul>  |
|      |              | 01       | Open circuit <ul style="list-style-type: none"> <li>Check if the motor cables are loose</li> <li>Motor brushes may be worn <ul style="list-style-type: none"> <li>Turn wheels to reconnect</li> <li>Replace motor brushes or motor</li> </ul> </li> </ul>   |
|      |              | 02       | Motor terminal connected to Battery Negative (B-) <ul style="list-style-type: none"> <li>Check if the motor has been connected correctly</li> <li>Check the motor cables for damage</li> </ul>  |
|      |              | 03       | Motor terminal connected to Battery Positive (B+) <ul style="list-style-type: none"> <li>Check if the motor has been connected correctly</li> <li>Check the motor cables for damage</li> </ul>  |
|      |              | 04       | Motor voltage is not what it should be during drive <ul style="list-style-type: none"> <li>Possible motor short circuit <ul style="list-style-type: none"> <li>check the motor cables for damage</li> <li>Motor brushes may be too stiff and bouncing</li> </ul> </li> <li>Otherwise internal controller fault, contact Dynamic Controls</li> </ul> |
|      |              | 07       | Intermittent short circuit <ul style="list-style-type: none"> <li>Check for damaged cables</li> <li>Motor brushes may be too stiff, bouncing against the case <ul style="list-style-type: none"> <li>Replace motor brushes or motor</li> </ul> </li> </ul>  |
| 04   | Park brake   | 00       | Park Brake energised or drive time test failed <ul style="list-style-type: none"> <li>Check if the cables of the park brake are loose or damaged</li> </ul>   |
|      |              | 01       | Park brake not connected, short circuit or broken <ul style="list-style-type: none"> <li>Check if the cables of the park brake are loose or damaged</li> </ul>  |
|      |              | 04       | Park brake short circuit or broken <ul style="list-style-type: none"> <li>Check the park brake cables for damage</li> </ul>   |

| Code     | Fault source   | Sub code | Meaning  |
|----------|----------------|----------|--|
| 05       | Throttle       | 00       | Throttle wiper (pin 1 on Tiller Connector) voltage out of spec <ul style="list-style-type: none"> <li>• Check the throttle cables for damage</li> <li>• Recalibrate throttle</li> <li>• Replace the throttle pot</li> </ul>  |
|          |                | 01       | Throttle Positive (pin 2 on Tiller Connector) or Throttle Negative (pin 8 on Tiller Connector) out of spec <ul style="list-style-type: none"> <li>• Check the throttle cables for damage</li> <li>• Replace the throttle pot</li> </ul>  |
|          |                | 02       | Speedpot fault, treating speedpot as set to minimum <ul style="list-style-type: none"> <li>• Check speedpot cable for damage</li> <li>• Replace speedpot</li> </ul>  |
|          |                | 03       | Speed Reduction Wiper (SRW) fault, treating as set to minimum <ul style="list-style-type: none"> <li>• Check SRW cable for damage</li> <li>• Replace SRW</li> </ul>  |
|          |                | 04       | Out Of Neutral At Power Up (OONAPU) <ul style="list-style-type: none"> <li>• Release the throttle and try again</li> </ul>   |
|          |                | 05       | Calibration fault <ul style="list-style-type: none"> <li>• Recalibrate throttle</li> <li>• Check the throttle cables for damage</li> <li>• Replace the throttle pot</li> </ul>   |
|          |                | 06       | Throttle calibration in progress <ul style="list-style-type: none"> <li>• Finish the calibration instructions</li> </ul>   |
|          |                | 07       | Neutral detect out of neutral <ul style="list-style-type: none"> <li>• Check the throttle cables for damage or loose connections</li> <li>• Replace the neutral detect hardware</li> <li>• Change the neutral window (see 4.5.2.3 and 4.5.2.6 Throttle Neutral Offset and Throttle Dead-band)</li> </ul> |
| 06       | I/O            | 01       | Battery gauge fault, battery gauge deactivated <ul style="list-style-type: none"> <li>• Check if the battery gauge cables are damaged or loose</li> </ul>  |
| 08<br>09 | Internal fault | All      | <ul style="list-style-type: none"> <li>• Contact Dynamic</li> </ul>  |