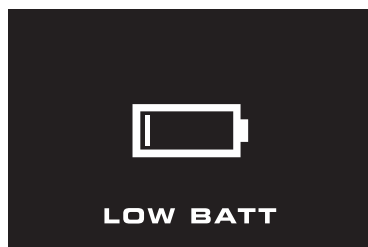


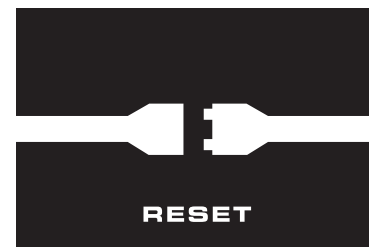
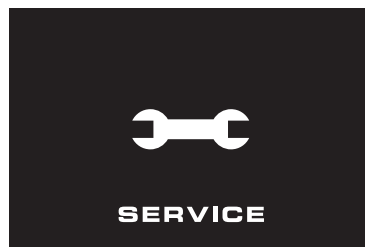
# POWAKADDY SPORT

## Fault Diagnosis

### Fault Icons



Should the 'LOW BATT' icon appear, the user's battery is out of useable charge and needs to be recharged for a minimum of 12 hours before further use.









Should the trolley stop and the 'SERVICE' or 'RESET' icons appears, depress both handle buttons at the same time for approximately 5 seconds, the screen will then change to display 'Fault List' at the top followed by a code which can be interpreted from the list below. In many cases disconnecting and re-connecting the power will reset the trolley and remove the fault code.

### Fault Codes

OCP	Over Current Protection, protects the trolley from a higher current draw between 35A to 42A for more than 15 seconds, for example the trolley has been pulling a heavy load up a very steep slope for 15 seconds or more. Disconnect and re-connect the battery and the problem should disappear. If the problem persists, check the motor functions and replace the controller if required.
SHORTC	Short Circuit protection prevents a peak current draw over 60Amps; check cabling for splits/damage/inner cable exposure, connections are fully pushed together, the motor for signs of water ingress or shorting. If the trolley has been allowed to drive into a tree root or rabbit burrow/large divot at high speeds where the electrical system of the trolley recognizes a very high spike of current draw. This can also occur if the wheels are locked. Replace the controller if the problem persists.
OTPL	Low Temperature Protection is where the trolley cuts out if the motor and controller have reached a temperature as low as approximately -5C. If this fault persists at normal temperatures, check and if necessary replace the controller.
OTPH	HighTemperature Protection is where the trolley cuts out if the motor and controller have reached a temperature in excess of 60C. If this fault persists at normal temperatures, check and if necessary replace the controller.
TX or RX	<ol style="list-style-type: none"> <li>1. Check handle wire connections at handle board – loose black or green wire gives a TX fault.</li> <li>2. Check handle wire for crushing or damage anywhere along it's' length.</li> <li>3. Disconnect handle wire from controller. Use test handle to diagnose if the fault is in the handle or the controller.</li> <li>4. Replace controller, handle PCB or handle wire as necessary.</li> </ol>
MOS	This electrical system protection (run on protection) is when the EBS type trolley has been manually pushed down a slope. The protection prevents current generated by the motor being turned damaging the controller. Disconnecting and reconnecting the battery should clear the fault. If the fault persists, replace the controller.
CLOCK	When a clock battery has been incorrectly fitted or is dead. Check the battery is correctly fitted and holds time.
BATVOLT L	Low Battery, fault icon will appear on the trolleys screen and the trolley will stop if the battery power (voltage) is too low, charge battery. It can also appear on the screen if the battery is undercharged at the start of the round or the voltage drops too low during the round – Below 9.5V+/-0.5V for Lead Acid or 11.00+/-0.5V for Lithium. Could indicate trolley has been set up for lithium and is running on lead acid. Go into the set up Menu and change as required. See Point 4 in 'Other Faults'.
BATVOLT H	This fault icon should only appear on the trolleys screen after initial power up of the trolley not whilst the trolley has been operating during a round of golf. BATVOLT H only indicates if the factory setting of the trolley is not correct to the type of battery being used on the trolley- over 15.5V for Lead Acid or 17.5V for Lithium. Could indicate that the trolley is set up for Lead acid and is running on Lithium. Go into the set up Menu and change as required.

 Most of these codes reset themselves once the battery is removed and replaced so you may get a consumer who reports the fault but you don't see a fault code.

## Other Faults

	<p><b>1 EBS Function does not operate.</b></p>	<p>EBS Function is only available on EBS trolleys. Power up the trolley and roll the roller back until the trolley reaches -3.</p> <ul style="list-style-type: none"> <li>• If the trolley will not go past 0, go into the set up screen and change the Gearbox setting from S Box to LSD (see instructions).</li> </ul> <p>If the EBS function goes to -3 but the brake does not operate;</p> <ul style="list-style-type: none"> <li>• Check the motor is connected to the controller.</li> <li>• Check the gearbox is intact.</li> <li>• Check the controller function.</li> <li>• Wheels are fitted correctly and are not in freewheel mode.</li> </ul>
	<p><b>2 Lack of Drive.</b></p>	<ul style="list-style-type: none"> <li>• Check the battery is charged.</li> <li>• Check the motor is connected to the controller.</li> <li>• Check the gearbox fixing bolts are all in place (x4 off connecting motor to gearbox) and are tight (6Nm) – loss of drive due to gearbox failure is where the trolley may travel a very short distance but is much noisier and as soon as load is placed onto the transmission. the drive is lost.</li> <li>• Check the motor operates.</li> <li>• Check the controller function.</li> <li>• Check the scroll pins are in place and the wheels are engaged with the clutches.</li> </ul>
	<p><b>3 Trolley does not complete 18 holes.</b></p>	<p>Power up trolley and check display. At the very start of a round and upon initial power up of the trolley the battery charge should show between 4 and 5 solid blocks/battery bar indicators. If there are not 4 to 5 solid blocks at the very start of the round the trolley may not complete 18 holes. NOTE: If a full 12-14 hour charge on the battery does not produce 4-5 blocks on the battery charge indicator the battery or charger may be faulty. Check that the trolley is set up for the correct battery and check the battery run time. Check the charger is functioning properly. Check the trolley with 5Ah test box, the reading should be less than 2.8Ah for 'S Box' and less than 3.4Ah for 'EBS' (If not then please check the gearbox alignment).</p>
	<p><b>4 Trolley shuts off or is intermittent – particularly over rough terrain.</b></p>	<ul style="list-style-type: none"> <li>• Check all power connections.</li> <li>• Check the battery top is screwed tightly on to the battery.</li> <li>• Check the T connector for damage.</li> <li>• Check that the “retractable” spring loaded bullets of the T connector are not pitted and do operate freely so as to allow correct orientation into the battery top.</li> <li>• On a lithium trolley, check the battery tray contacts for damage. Deformed contacts can lead to intermittent contact with the battery and cause a variety of faults. Check battery fits snugly and that contacts are not fouled by dirt and that dirt is not keeping the battery from sitting down in the battery tray.</li> <li>• Check all handle wire connections to handle PCB by gently tugging each of the wires in turn.</li> <li>• Check the handle wire connector is fully engaged and tightened.</li> </ul>
	<p><b>5 Screen loses illumination or goes blank.</b></p>	<ul style="list-style-type: none"> <li>• Check ribbon cable connection between screen and handle PCB. The cable should be fully inserted into the handle PCB connector and be undamaged.</li> <li>• Check all handle wire connections to handle PCB by gently tugging each of the wires in turn. A loose red wire can cause loss of screen illumination.</li> <li>• Check the handle wire connector is fully engaged and tightened.</li> </ul>
	<p><b>6 Distance Function is inaccurate.</b></p>	<p>Distance function runs by a timer and is not exact. The distance the trolley will travel will vary according to bag weight, battery type and terrain.</p>