

**Applies to:**

Mercury Scooters (after 09/03) (Code: M36 / M46 / M48)  
 Pioneer Scooter (Code: MS010)  
 Vitesse 8 Scooter (Code: and MS032)  
 Neo 8 Scooter (Code: MS042)

**Diagnostics**

Below is a break down of the flash sequence giving an indication of the area which is at fault. If there is a fault present the controller will indicate the fault by a series of flashes. The flashes will be spaced between short pauses then there will be a longer pause before the series starts again. Please be aware that 1 flash (low battery voltage) will be reported by the end user as constant flashing. The scooter simply requires recharging or replacement batteries.



On the Vitesse 8 and Neo 8, the status LED will flash to indicate the fault. On the Mercury range, the left-most segment of the battery gauge will flash to indicate the fault. The status LED / battery gauge will continue flashing until the fault is rectified and the keyswitch has been cycled

1 Flash • _ • _ • _	<b>Low Battery.</b> Battery voltage has dropped below 23.3V. Recharge batteries as soon as possible.
2 Flash •• _ •• _ •• _	<b>Battery voltage too low.</b> Voltage has dropped below 16.5V. Recharge batteries or leave scooter switched off a few minutes.
3 Flash ••• _ ••• _ ••• _	<b>Battery voltage too high.</b> Unplug the charger from the scooter if it is plugged in. Turn the scooter off and on. Reduce speed down any gradients.
4 Flash •••• _ •••• _	<b>Current limit time-out.</b> The scooter has drawn too much current for too long. Turn the scooter off and leave for a minute. If the problem persists, check loom and motor for shorts.
5 Flash ••••• _ ••••• _	<b>Brake Fault.</b> Check the freewheel lever is in the DRIVE position. Check the brake connector is plugged in firmly.
6 Flash •••••• _ •••••• _	<b>Out of Neutral at Power Up.</b> Return wigwag paddle to neutral then turn off and on again. If problems persist, wigwag paddle may need re-calibrating
7 Flash ••••••• _ ••••••• _	<b>Speed Pot Error.</b> Wigwag paddle or its wiring is faulty. Check the paddle is calibrated and check for open or short circuits.
8 Flash •••••••• _ •••••••• _	<b>Motor Volts Error.</b> Motor or its wiring is faulty. Check the paddle is calibrated and check for open or short circuits.
9 Flash ••••••••• _ ••••••••• _	<b>Internal Controller Fault.</b> Contact Drive Medical