

Dealer Service Bulletin # DSB115

CONNECTION OF POWER TO CONTROLLER

A number of PG Drives D51270 Motor Controllers have been found to be heavily damaged due to being connected incorrectly. This Bulletin is to clarify the correct electrical connection of the Battery and Motor wiring to prevent repeats. The attached pictures are from a Bandit Scooter.

There are 4 heavy Gauge Electrical Wires that carry main power from the Battery and to the Motor, in addition to the 3 Molex Connectors (the Molex connectors are the white plastic plugs, that connect to sensors and dashboard and have much thinner wires)

The Main power wires consist of two pairs of Red and Black wire with yellow/green spade connectors. Please refer too attached picture.

The Motor pair of black and red wires (the ones that run to the rear of the scooter, where the motor is located) must be connected too the left most pair of Spade pins in the image, where there is a symbol for a motor with the Numbers 2 & 1

The Battery pair of Black and Red wires (that run too the battery) must be connected to the right most pair of Spade pins, with the Red and Black - + Symbols, ensuring that the Red wire is connected too the pin immediately below the Red + symbol.

If the Motor wires are connected wrong way round (i.e red wire where black wire should go & vice versa) , then the scooter will drive the opposite way to the tiller control, and possibly result in long term damage to the controller.

If the Battery Wires are connected the wrong way around, or mixed up with the Motor wiring pins, the a short circuit of the controller PCB will result, immediately upon connection without the need to turn on the machine (as reverse polarity protection is not practical in these applications)- please see attached pictures. This damage is not warrantable.

If in doubt, please stop and contact one of our friendly team members to assist with the correct wiring pin-out for your machine, we can assist if you provide us pictures of your situation.

Remember, A Moment's Haste = A Lot of Waste !

