AERODIST PDM60
POWER DISTRIBUTION MODULE
VERSION 2.0 OWNER'S GUIDE

Thank you for purchasing a PDM60, a fully sealed, solid state power distribution device. The unit is designed to be directly connected to a battery, efficiently dispersing and monitoring power through its 6 available circuits, with a combined total of 60 amps of load handling capability. The solid state circuit protection offered by the PDM60 works without traditional fuses, eliminating the need to install relays for high amperage applications such as aftermarket lighting, etc. Each circuit has a preset amperage load rating (see below). One may be controlled via an external switch (not included), and the remaining five are turned on/off via the vehicle ignition switch. Two of the five ignition-switch-activated circuits have a pre-programmed, 180 second, time-out delay before turning off. This feature reduces the chance of an accidental battery run-down, while also providing an additional 3 minutes of power to the circuits once the ignition key switch is turned off. The PDM60 is an excellent power distribution solution for CanBus equipped motorcycles where current draw limits designed by the manufacturer do not support high amperage loads.

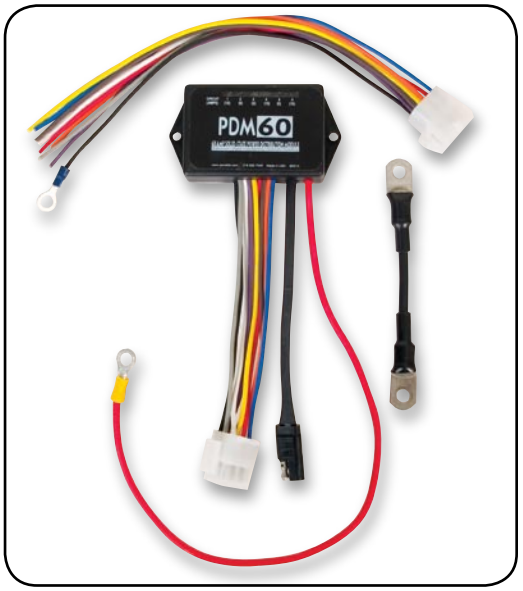
Connecting the PDM60:

Read all instructions before beginning installation. If you have any questions about properly installing the PDM60, seek assistance.

Locate a mounting point for the PDM60 module away from heat sources and potential pinch points. The module should be securely mounted and not allowed to move freely or make intermittent contact with hard surfaces.

The PDM60 is supplied with a 16", 10 AWG (gauge) red power lead (with attached 6mm ring terminal) for connecting to the positive terminal on your battery. Connect the black (16 AWG) wire from the modular wiring harness (with attached 6mm ring terminal) to the battery ground terminal or to a ground point on the chassis. Polarity when making connections is: (Red to (+) positive, Black to (-) negative). Route all wires carefully to avoid high heat, sharp edges and friction.

The PDM60 modular wiring harness is the accessory connection point. It serves as the interface between the PDM60 and the individual applications powered by the unit. All wires on the wiring harness are 16 AWG (gauge). The circuit values & functions are shown below:

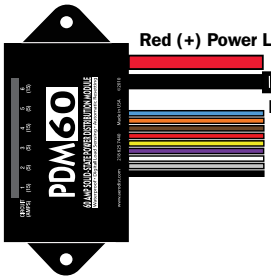


Input Wires

Position	Color	Purpose
1	Blue (-)	External switch-controlable ground input for circuit #1: Connect to ground to allow circuit #1 to operate with the other circuits. Connect to an optional switch (w/switch connected to ground) and the PDM60 acts as a relay.
8	Gray (+)	Connect to 12V ignition controlled source for key activation or to positive battery terminal for always-on power.

Output Wires

Position	Color	Circuit/LED	Max AMP Load	Switched	Time Out
2	Orange (+)	6	15 Amps	Ignition	180 seconds
3	Brown (+)	5	5 Amps	Ignition	None - Instant Off
4	Red (+)	4	15 Amps	Ignition	None - Instant Off
5	Yellow (+)	3	5 Amps	Ignition	None - Instant Off
6	Purple (+)	2	5 Amps	Ignition	180 Seconds
7	White (+)	1	15 Amps	Externally Switched	None - Instant Off



Red (+) Power Lead

Black SAE Connection (for Battery Charger/Tender Use Only)

Position	Color	Circuit/LED
1	Blue	External Switch Ground (activates #1)
2	Orange	Circuit 6
3	Brown	Circuit 5
4	Red	Circuit 4
5	Yellow	Circuit 3
6	Purple	Circuit 2
7	White	Circuit 1
8	Gray	Ignition Trigger (activates #'s 2 - 6)
9	Black	Ground

Connect the respective output wires to the accessories you wish to power. If a direct ground circuit is desired, also connect a ground wire for the circuit by either attaching a ground wire to the motorcycle frame or to the optional ground connector for the negative battery terminal.

Route the ignition trigger wire (#8/Gray) to any source of +12V DC that switches on with the ignition key. A good source on a motorcycle installation is the positive wire to the tail lamp. This will control power to the PDM60 with the motorcycle ignition. If your bike is equipped with a CanBus wiring system, you may still use the tail light wire for this.

If you would prefer to have power continuously provided to the PDM60, the ignition wire (#8/Gray) can be connected to the positive battery terminal, however in this configuration the switched-off and timed-out functions of the PDM60 will not function. Any devices left on after the bike has been shut off will continue to drain power from the battery.

Using the PDM60:

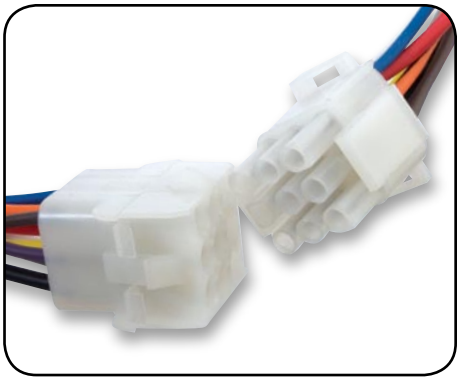
After installing the module and connecting all wires, turn on the ignition switch to the accessory position. When power is applied, the LED indicators on the top of the PDM60 will illuminate, indicating power is present. Using the legend, insure proper condition of each circuit by checking the color of the indicator.

Circuit/LED Legend:

Green - Circuit is on and powered.

Red - Circuit is switched off or off due to an overcurrent fault

Orange - No load on circuit



Connect wires to all devices, plug in connector and turn on ignition.

SAE Connection:

The SAE connector on the black wire adjacent to the red power lead is intended to be used only for charging the battery. Easily plug in a battery charger/ tender for charging and maintaining battery charge when the bike is not in use.

All LED's illuminating Green: Power is on.

Optional switch input:

The optional switch input controls the #1 circuit and is for loads up to 15 amps. To enable the switch, simply route the blue wire to a low current SPST (Single Pole Single Throw - On/Off) switch. Route the other side of the switch to ground. Connecting circuit #1 in this manner will allow it to be controlled by the external switch, it will not be activated by the ignition trigger wire. This circuit configuration is intended for use with driving lamps or other accessories which you would not likely forget to turn off. Forgetting to turn off, or accidentally triggering the optional switch may result in battery drain on a bike left sitting for an extended period.

Circuit #1 is Red (Switched OFF) and circuit #'s 2 - 6 are Green (power ON).

Ground Connector:

The PDM60 includes an optional ground connector for those who wish to provide a "full circuit" installation rather than route circuits to a frame ground point. Simply attach one ring terminal of the black 5.5" ground connector to the negative battery terminal and attach device ground wires to the other terminal on the connector.

Resetting the PDM60:

If a circuit has a fault (overcurrent 'short') the LED will be red. When the short is eliminated, the PDM60 is easily reset by turning off the ignition switch (and optional external switch if connected), and then turning the power back on.

Questions? Call 218 722 1927 or e-mail: service@aerostich.com

Circuit #1 is Red (Switched OFF), #'s 2 & 6 are Green (ON), and the other circuits are Orange, indicating no load.