

Astro Model 101D Super Whattmeter with Deans Ultra Connectors

- **Our new Super Whattmeter takes the guesswork out of electric power.**
- **Just look at what this precision measuring instrument can do for you.**
- **Now you will know your battery discharge current draw up to 50 Amps.**
- **Now you will know your battery charging current up to 10 Amps**
- **Now you will know your battery voltage up to 60 Volts.**
- **Now you will know your motor input power up to 4,000 Watts.**
- **Now you will know your battery capacity up to 96 amp hours.**
- **Now you can use a separate receiver battery to test 1 cell**
- **Use it to adjust your motor timing for optimum power and efficiency.**
- **Use it to choose the right prop to load your motor for best Amps.**
- **Use it to select your cells for maximum Volts, Watts or Amp hours.**

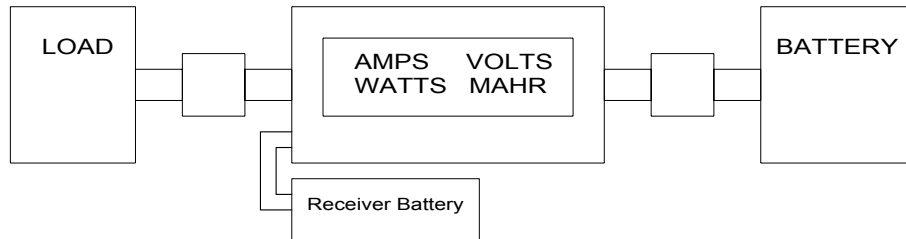
The New Astro Model 101 Whattmeter is a very sophisticated piece of electronic equipment. It contains three digital micro-processors, a 4.096 volt precision reference, five volt power supply and a precision amplifier. The meter contains no battery. It is powered from the voltage source and absorbs about 3 milliamps. A separate receiver battery connector is supplied to allow the meter to be externally powered by any four cell radio receiver battery. The meter will turn on at **4.5 volts** and will measure any DC voltage up to **60 volts**. To measure voltages between zero and 4.5 volts, power the meter with a separate receiver battery. Connect the receiver battery to the Futaba connector. The Whattmeter micro-processor goes through a self calibration routine every time voltage is applied. This routine takes about 1 second. Wait for the voltage display before connecting the load. This way you will have a very accurate current measurement. If the load is connected before the source of power is connected the current measurement may have up to a 1 amp error.

To measure motor current and power, first connect the Whattmeter SOURCE LEADS to the battery or power supply. The meter display should light up and indicate the Source voltage. Then connect the motor to be tested to the LOAD LEADS. If the motor is of higher power it would be best to place a speed control between the motor and the Whatt Meter so that power can be applied smoothly. This set up can also be used to measure battery capacity. The arrow on the display indicates direction of current flow.

Astro Flight Inc. 3 Watson Irvine, CA 92618
Ph (949) 855-9903, Fax (949) 597-1729
Visit our Web Site at <http://www.astroflight.com>

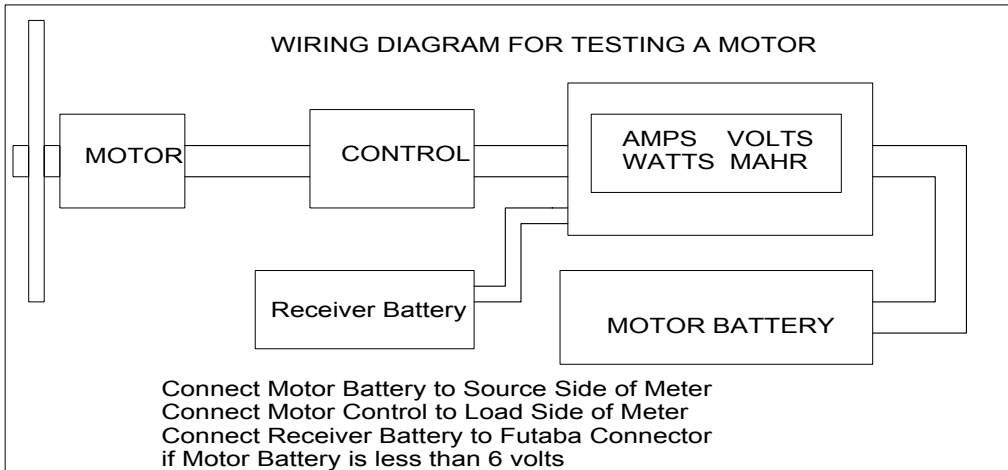
Astro Model 101D Super Whattmeter with Deans Ultra Connectors

WIRING DIAGRAM FOR BATTERY DISCHARGE TEST



First Connect Test Battery to Source Side of Meter
Then Connect Load Resistor to Load Side of Meter
If the test Battery is less than 6 volts, Use a separate receiver battery to power the meter/

WIRING DIAGRAM FOR TESTING A MOTOR



Connect Motor Battery to Source Side of Meter
Connect Motor Control to Load Side of Meter
Connect Receiver Battery to Futaba Connector
if Motor Battery is less than 6 volts