

Brushless Motor Thrust Stand Manual V3

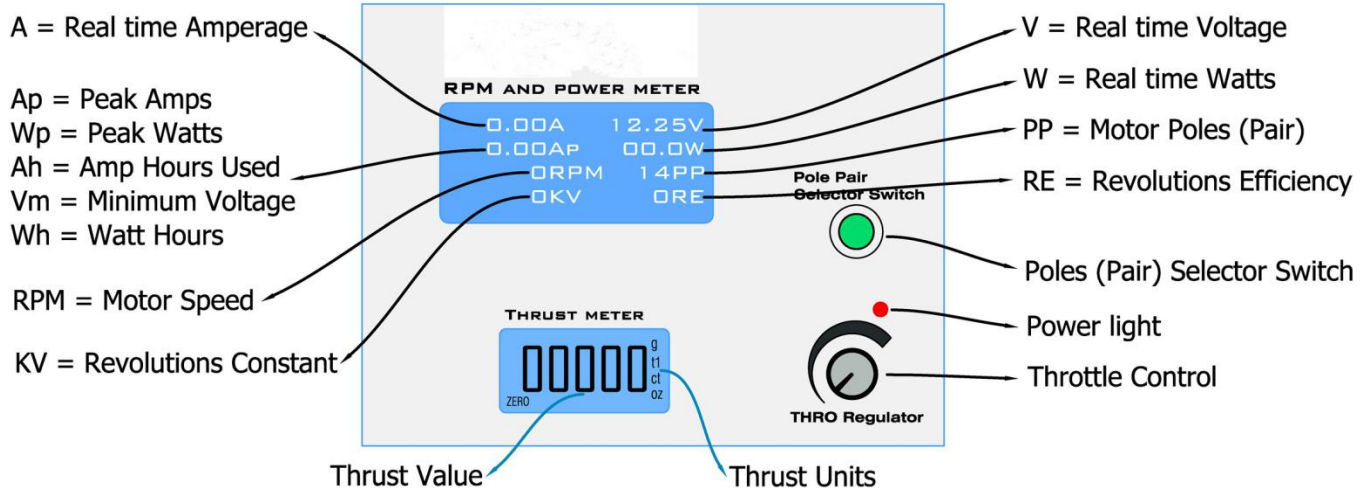
Model: LMTMS-OM-BMT



Specification:

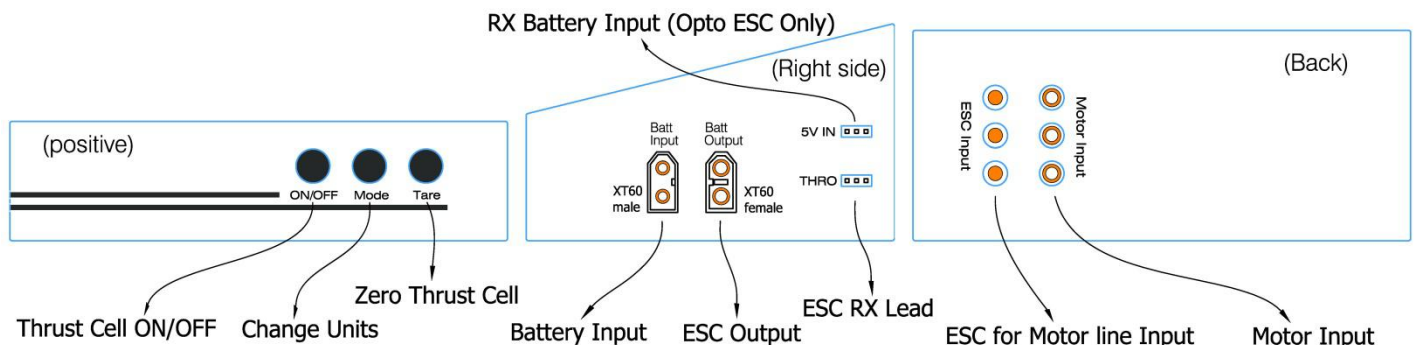
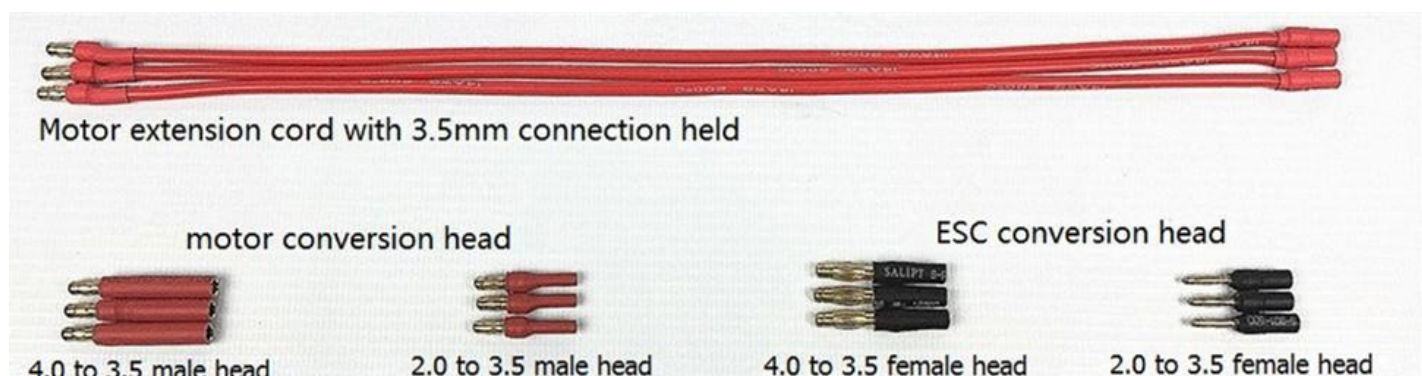
- ◇ Motor Mounts: 11mm~59mm
- ◇ Maximum value test thrust: 5000g /177oz
- ◇ Division value: 1g /0.01oz
- ◇ Sensor power supply: 3V (Main battery supply)
- ◇ Max current: 100A
- ◇ Max wattage: 6500W
- ◇ Max RPM displayed value: 999999
- ◇ Max KV displayed value: 9999
- ◇ Motor poles (pole pairs) selection scope: 2、3、4、6、7、8、12、14
- ◇ Product size: L198xW140xH81mm
- ◇ Weight: 685g

LCD Display:

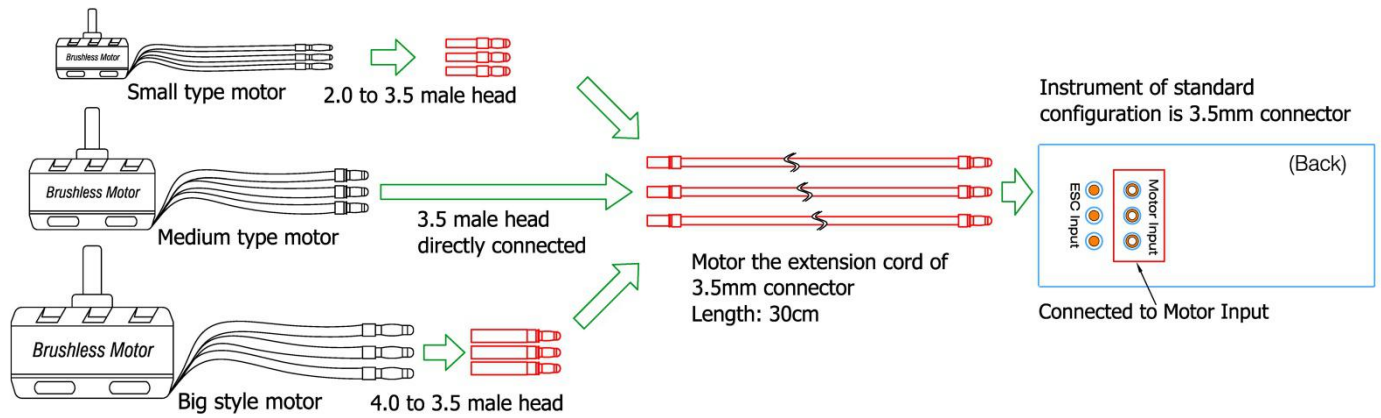


Features:

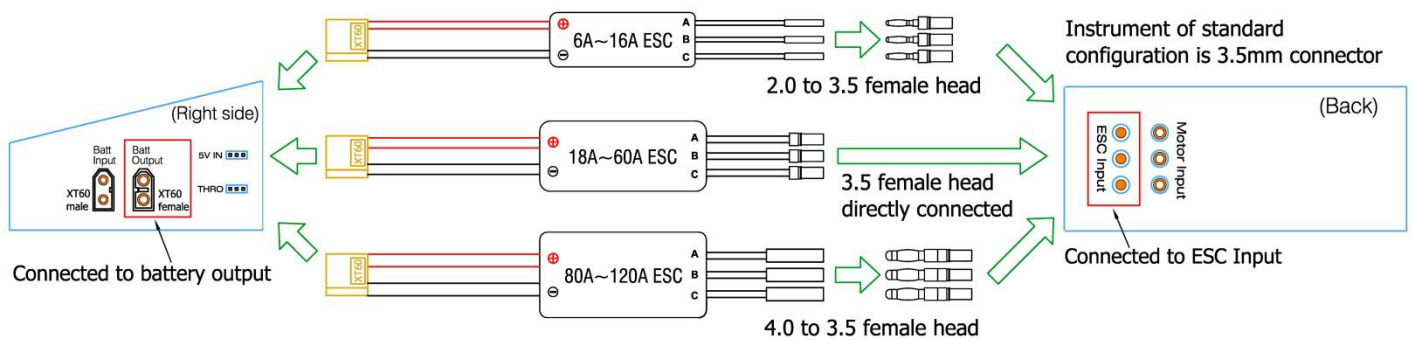
- 1) Thrust test range 11mm~59mm out runner Motor.
- 2) High precision thrust sensors, maximum magnitude 5000g/177oz, minimum quantity 1g/0.1oz.
- 3) Breakthrough technology, the analysis of the various parameters of the motor. Comprehensive understanding of the performance of the motor.
- 4) Precise digital speed monitoring, instead of the traditional laser monitoring.
- 5) Motor pole pair selection scope, and can be compatible with most of the inner and outer motor in the market.
- 6) is a good helper of unmanned aerial vehicle (uav) DIY, except some can also analysis the model cars, boats, helicopters, and so on the running speed, KV value, such as current, voltage and power parameters.
- 7) Input voltage up to 60V, maximum load current of 100A.
- 8) RE is Revolutions Efficiency that is used to confirm whether the motor or ESC is consistent with the product performance.
- 9) Are equipped with all kinds of connector, can satisfy you to test the connection of each series motor and ESC.
- 10) Strong LCD data real-time display let you be clear at a glance.

Function diagram:**Motor Extension cord with various types of connector:**

Motor connection diagram:



ESC connection diagram:



RE values (Revolutions Efficiency) Functional description:

- Using two different brands of ESC test the same type of motor, RE value; the greater the ESC performance is optimal. As shown in figure ①.

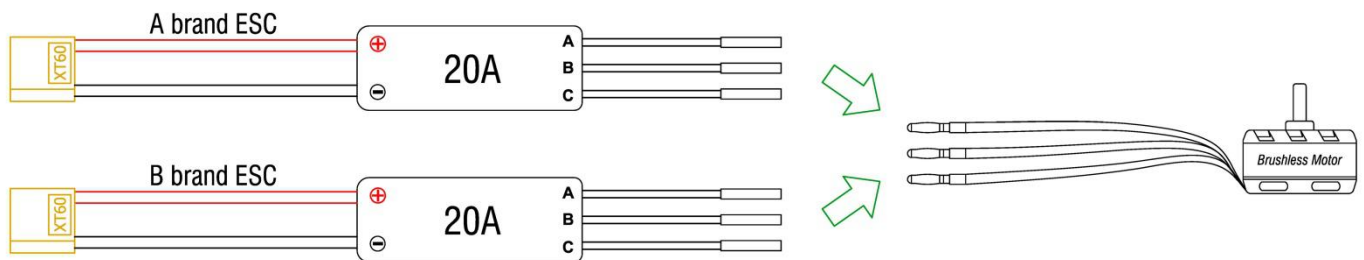


Figure ①

- Use the same type of ESC test two different brands of motor, RE value, the greater the motor performance is optimal. As shown in figure ②.

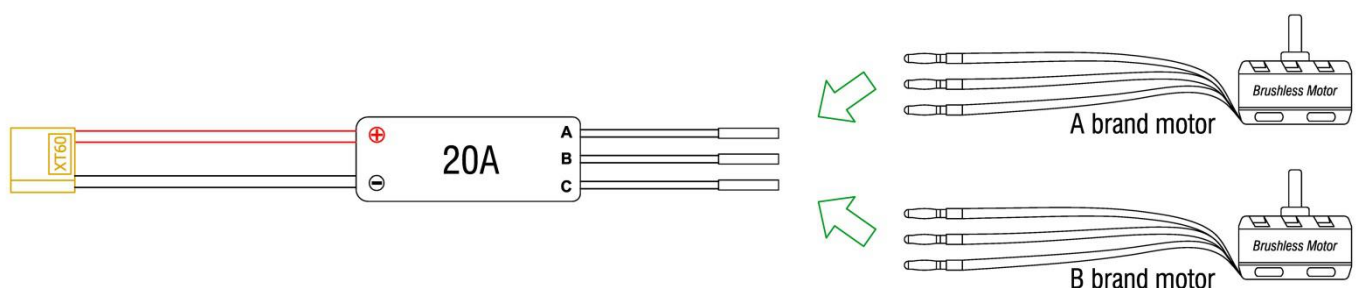
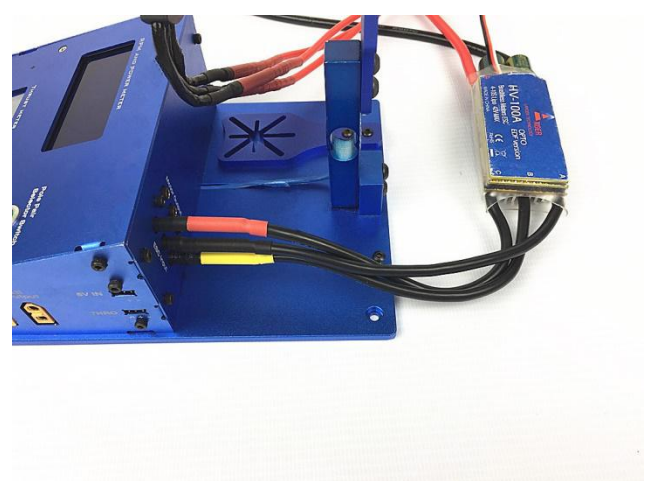
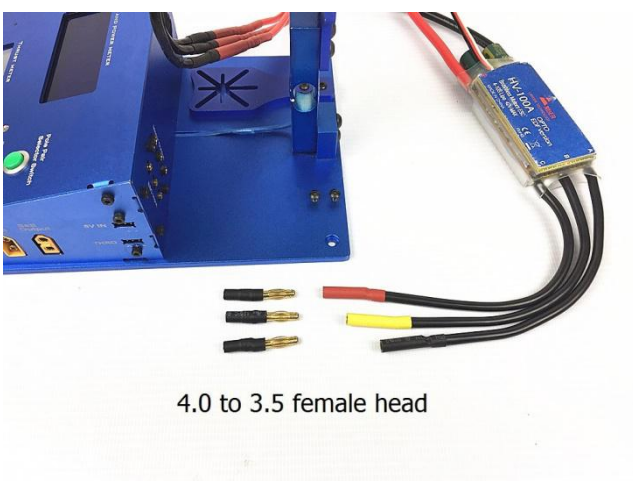
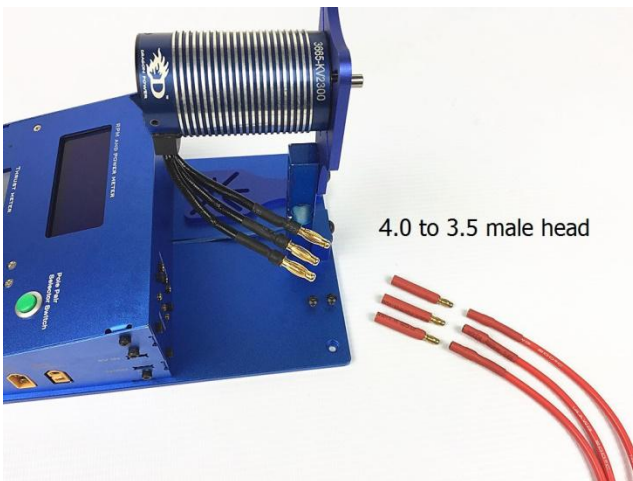
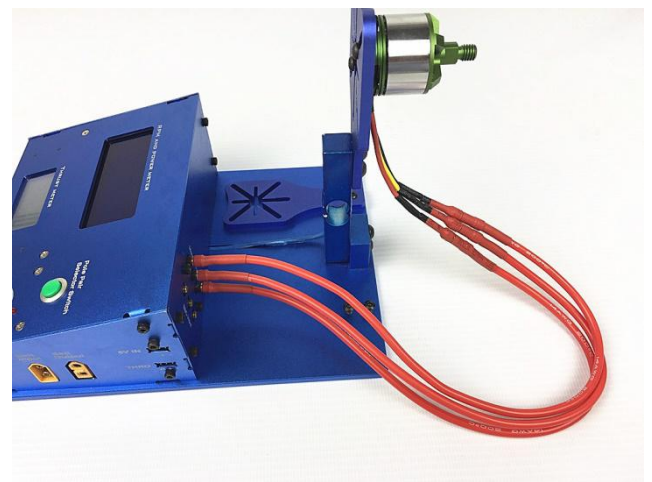
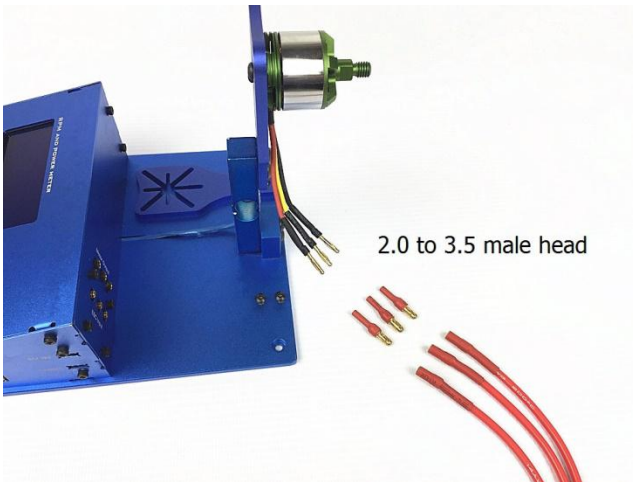
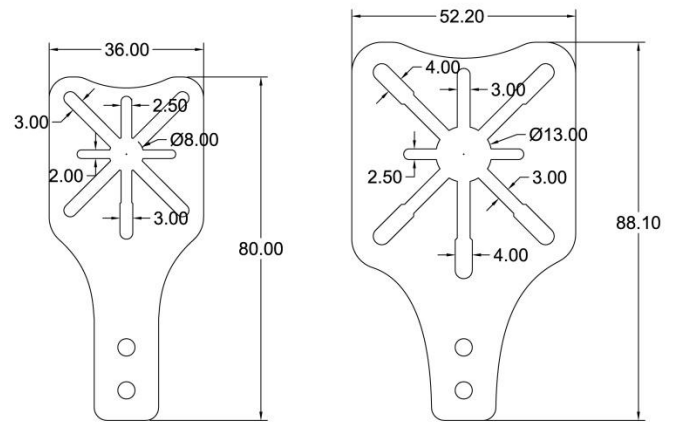
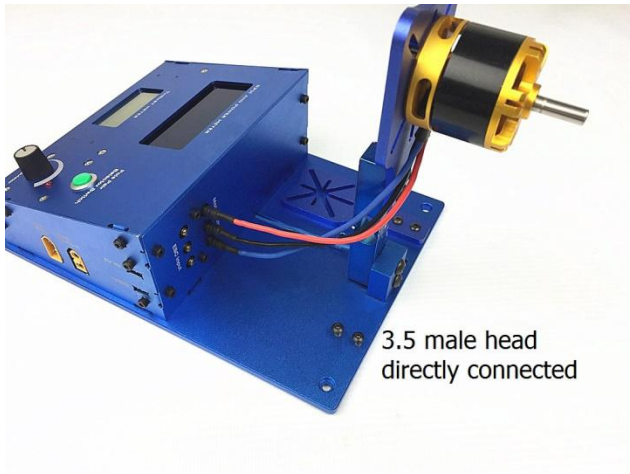


Figure ②

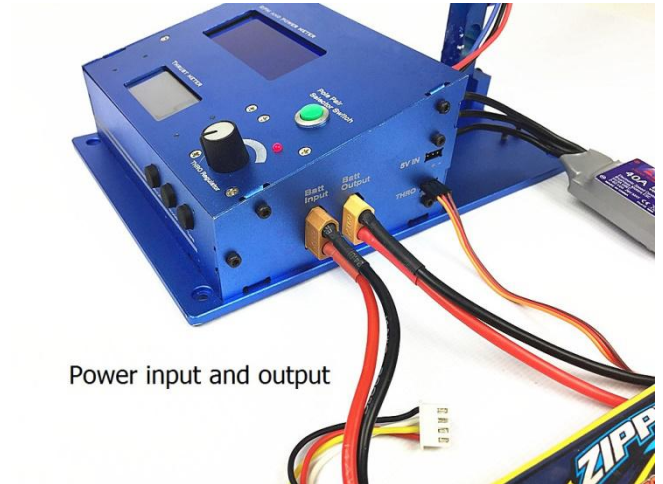
Test the connection diagram:

Motor Mounts

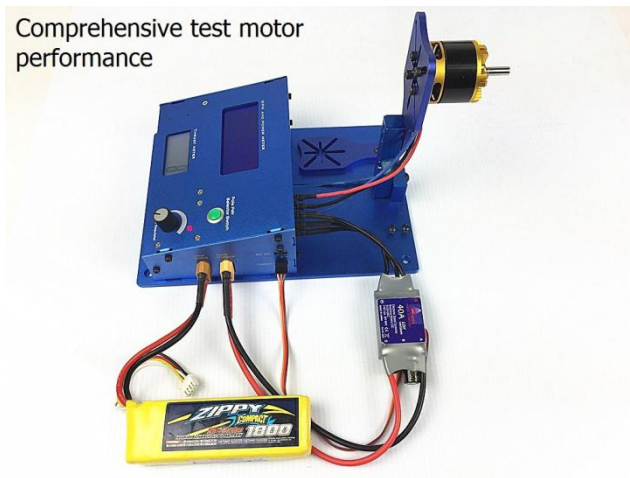




3.5 male head
directly connected



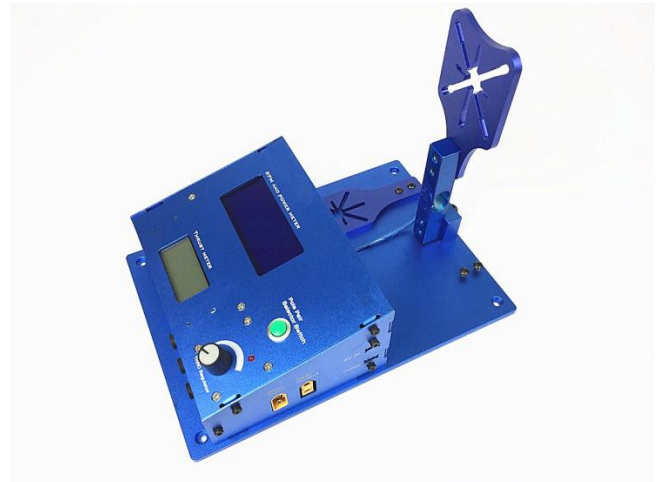
Power input and output



Comprehensive test motor
performance



Comprehensive test motor
performance



Warning:

1. Maximum measure current of this tester is up to 100A, also depends of which connector such as XT60 current limit, if the test current more than 80A, should be stopped ASAP.
2. In order to accurate detection of RPM and KV values, must be choose the right PP(Poles) of motor, Please consult with your motor supplier.

