

DURATRAX®



DM8.5T

DM10.5T

DM13.5T

DM17.5T

Brushless Motors

Thank you for choosing DuraTrax for your brushless power needs. DuraTrax brushless motors are constructed with the finest raw materials to provide excellent and efficient power for any 1/10th scale application. The sensored feature allows for smooth and precise control at any given speed. The motors are 2 pole in design providing higher top speeds and the right amount of torque required by today's 1/10th scale applications. Vent holes allow for cooling and help in maintaining lower operating temperatures. DuraTrax brushless motors are a perfect match for the DuraTrax DE10™ Brushless ESC.

Specifications:

	DTXC3425 8.5T	DTXC3435 10.5T	DTXC3440 13.5T	DTXC3445 17.5T
Max. Amps:	34A	25A	20A	15A
kV (RPM/Volt):	4450	3650	2850	2250
LiPo Cell:	2-3S LiPo / 6-9 Cell Nicd/NiMH			
Mount Hole Depth:	4mm [0.16"]			
Shaft Diameter:	3.175mm [0.125"]			
Shaft Length:	15mm [0.59"]			
Dimensions:	35.8x52.5mm [1.41"x2.07"]			
Weight:	170g [6.0oz]			

Warnings:

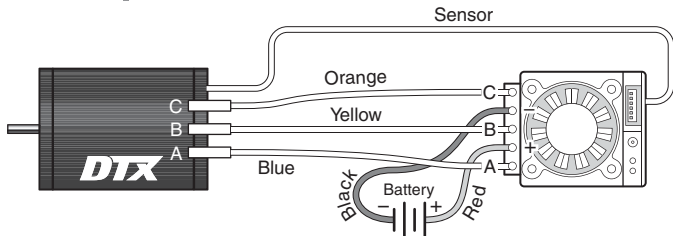
Please read thoroughly before installation and operation.

- DO NOT apply an input voltage that exceeds the maximum specifications of each motor.
- DO NOT allow the input connectors to accidentally touch each other while power is applied to the motor. Make sure all input connections are insulated electrically.
- DO NOT allow water or moisture to enter the motor, as it can cause permanent damage to the motor and possibly short out the attached ESC.
- Allow the motor to cool down after each run.
- DO NOT attempt to use a damaged motor (having mechanical or electrical defects).
- DO NOT attempt to modify or repair this motor.



Installation:

Please reference the diagram below for the correct wiring configuration. The motor wires coming from the ESC are usually marked 'A', 'B' and 'C'. These wires will correspond to the 'A', 'B' and 'C' tabs on the motor. 'A' wire goes to 'A' tab on motor, 'B' goes to 'B' and 'C' goes to 'C'. Pay special attention when soldering the ESC wires to the motor tabs not to allow the tabs and/or wires to become soldered together.



After the main motor power wires are installed, the included sensor wire can be connected. This sensor wire will connect between the ESC and motor. Connect one end of the sensor wire to the motor and the other end to the ESC. Be sure that the connections are tight.

Once the above steps are completed, it is recommended to double check all solder joints and connections to ensure they are secure.

Refer to your vehicle's owner manual for proper gearing information.

General Maintenance:

General maintenance is recommended for brushless motors to ensure they are operating efficiently and to prolong the life of the motor. Prior to maintenance, the motor should be removed from the vehicle. This includes de-soldering the three main power wires (A, B and C), disconnecting the sensor wire and removing the pinion gear.

Inspect the motor for damages to the can, solder tabs, sensor port and motor shaft. Also inspect power and sensor wires for damages. Use a cloth to wipe off any dirt or debris from the motor. Compressed air can be used to lightly blast the motor to remove any stubborn dirt/dust from hard to reach places. A good shot of air is usually enough to clean out the inside of the motor without disassembly. Be careful not to blast the bearings with air. This could force dirt and debris into the bearing causing premature failure.

Be sure that the motor can screws are **snug**. DO NOT over-tighten. Once general maintenance is completed, use a drop of light bearing oil on the front and rear bearing of the motor. Follow the steps for installation on page 4 to reinstall the motor into the vehicle.

Optional Accessories:

- **DTXM1300 DE10 DuraTrax Brushless ESC**



DuraTrax's DE10 ESC is great for many 1/10th scale applications, regardless of motor type. Very smooth and precise control results in no cogging - even at low speeds! A huge set of adjustable features further broadens the number of useful applications, including on and off-road cars & trucks, as well as short course trucks! A powerful BEC circuit allows for the use of high-torque/digital steering servos.

- **DTXM1350 DuraTrax Brushless ESC Programmer**



The Digital Programmer is a handheld device that allows the user to easily adjust the features of the DuraTrax DE10™ ESC. The programmer is small and lightweight, making it highly portable and easy to take anywhere. This programmer allows the user to fine-tune the adjustable features of the ESC and is also great for quick, easy setup changes while at the track. It also allows the user to download various types of performance data for post-race analysis.

180-Day Limited Warranty - USA & Canada Only

DuraTrax warrants this product to be free from defects in materials and workmanship for a period of 180 days from the date of purchase. During that period, we will repair or replace, at our option, any product that does not meet these standards. You will be required to provide proof of purchase date (receipt or invoice). If, during the warranty period, your motor shows defects caused by abuse, misuse or accident, it will be repaired or replaced at our option, at a service charge not greater than 50% of the current retail list price. Be sure to include your daytime telephone number in case we need to contact you about your repair. This warranty does not cover components worn by use, application or reverse voltage, cross connections, poor installation, subjection of components to foreign materials, or tampering. In no case shall our liability exceed the original cost of the product. Your warranty is voided if:

- You apply an input voltage that exceeds the maximum specifications of the motor.
- You allow water or moisture to enter the motor.
- You attempt to modify, tamper or repair this motor.

Under no circumstances will the purchaser be entitled to consequential or incidental damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. **If you attempt to disassemble or repair this unit yourself it may void the warranty.**

For service to your DuraTrax motor, either in or out of warranty, send it post paid and insured to:

Hobby Services

(217) 398-0007

3002 N. Apollo Dr. Suite 1

Champaign, IL 61822

E-Mail: hobbyservices@hobbico.com

Internet Address: www.duratrax.com