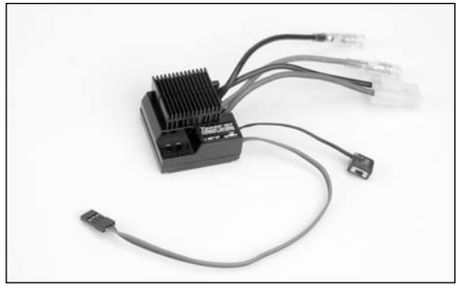
dynamite®
TAZER 15T



Instruction Manual

Thank-you for choosing the Dynamite brand. We know that you, the customer, are the reason that we are in business. Your satisfaction is our number one priority. With this in mind, we have produced this product to be of the highest quality, performance and reliability, and at a "value-packed" price. We hope it provides you with hours of enjoyment in your next R/C project.

Features

- High power FET control with proportion forward and reverse.
- High frequency design delivers smooth speed transition.
- Thermal Overload Protection. Prevents damage due to over-current conditions that automatically resets.
- Pre-wired with Tamiya battery plug, bullet style motor connectors, and universal receiver plug that fit JR, Futaba J and Hi-Tec radios.
- Designed to operate with stock motors (15 turns or higher)
- Push button programming makes set-up a breeze.

Specifications

Operation	Proportional forward, proportional reverse with braking delay
Input Voltage	4-cell (4.8 volts) to 7-cell (8.4volts) DC
Peak Current	700 amperes
Continuous Current	110 amperes
Full-On Resistance	0.006 ohms
Frequency	2 kHz
BEC output	4.8 VDC, 1 amp max.
Overload Protection	Thermal
Dimensions	1.57 x 1.57 x 1.06" (40 x 40 x 27mm)
Weight	1.80 oz. (52g)

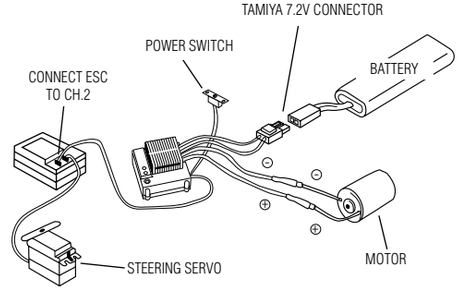
Mounting the Speed Control

Mount the Tazer 15T ESC in the location specified by your vehicles instruction manual. Use the double-sided foam tape (included) to secure the speed control in position.

NOTE: Be sure all wiring connections can be reached prior to mounting.

Use double-sided foam tape to secure the side of the switch to a convenient location on the chassis or shock tower.

Wiring Diagram



Wiring the Receiver

NOTE: The Tazer 15T uses the motor battery to supply power to the receiver through the servo wires. There is no need for a separate receiver battery.

- See your radio's instruction manual for proper connection. Typically, channel 2 is used to control the throttle.
- There are 3 wires involved in the universal receiver connector. It is directly compatible with JR, Hitec, Airtronics Z, New KO and Futaba J systems.
- Older Airtronics or KO radio systems must use a modified wiring order.
- The positive (red) and negative (brown) wires must be reversed to operate with these radio systems. To remove the wires from the plug use a small jewelers screwdriver to pry up the plastic tab associated with each wire. Gently slide the brown wire out of the plug. Repeat on the red wire and replace in the opposite positions.
- Install the plug referencing the wire colors on the steering servo for proper polarity.

Motor Capacitors

If the motor you are using (15 turns or more) does not have 3 capacitors already attached, you must install them. The monolithic capacitors help prevent motor noise which lessens radio glitches. Some motors have internal capacitors that are not visible without removing the endbell. Check the motor's instructions to confirm if capacitors are present in your motor. If your motor does not have capacitors, they can be purchased at your local hobby shop. Follow the directions below for proper connection.

1. Using a small file, scuff up an area on the motor can between the positive and negative tabs. (See figure 2)

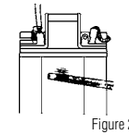


Figure 2

2. Take one of the capacitors and solder one wire to the positive motor tab with the other wire positioned over the scuffed area on the motor housing. (see figure 3).
3. Use another capacitor and solder one wire to the negative motor tab with the other wire positioned over the scuffed area as well.

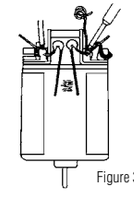


Figure 3

4. Solder both wires to the motor housing. (see figure 4). A high wattage soldering iron may be necessary.
5. Solder the third capacitor from the positive to the negative motor tabs. (See figure 5).
6. Use side cuts to remove excess capacitor wires.

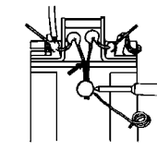


Figure 4

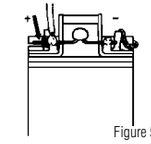


Figure 5

Some forward only ESC's require a shotky diode attached to the motor for noise suppression. Be certain there IS NOT a diode attached to the motor when using the Tazer 15T or any other reversing electronic speed control.

Connecting the Motor Wires

If your motor has pre attached male bullet connectors, press the orange motor wire into the plug that is wired to the positive motor terminal. The black wire is connected in the same manner to the negative motor tab (see figure 6).

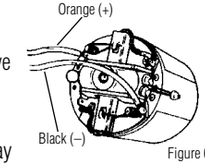


Figure 6

If your motor does not have male bullet connectors, you may purchase them from your local hobby shop "Motor Connector Wire DLR1055".

Caution: To detour glitches caused by RF (radio frequency) noise, route all wires and the receiver antenna away from motor leads. Secure with tie wraps (not included).

Connecting the Battery

The Tazer 15T comes pre-wired with a Tamiya style connector, compatible with most battery packs. Use battery packs from 4-cell (4.8 volt) to 7-cell (8.4volt) sub-C size battery pack.

1. Be sure the on/off switch is in the "off" position.
2. Connect a fully charged battery pack to the speed controls battery connector.

Adjusting the Transmitter

NOTE: Refer to the radio instructions for specific information on transmitter set-up.

1. Set the "throttle reversing" switch to the NORMAL position. (This may need to be reversed on some brands of radios).
2. Set the "throttle trim" to the CENTER position.
3. Set the "throttle exponential" to MINIMUM or ZERO.
4. Set the "ATV" to 100%.
5. If your transmitter has an adjustable trigger (or stick) position, move it to the 70/30 position.

Speed Control Programming

NOTE: While in the programming mode, no power is applied to the motor.

1. Turn on the transmitter's power switch. (Be sure the transmitter batteries are fully charged)
2. Turn the ESC switch on.
3. Press and release the set-up button with the included programming tool. The red and green LEDs will light.
4. Move the throttle to the full throttle position and press the programming button. The green LED will remain lit and the red LED will go out. (If the ESC does not sense throttle movement in 3 seconds by the transmitter, it will exit the programming mode and you will have to begin again).
5. Now move the throttle to full reverse and press the programming button. The red LED will glow and the green LED will go out.
6. Return the throttle stick to neutral and press the programming button. The green LED will glow and the red LED will go out, indicating programming is complete.

During normal operation, the green LED indicates neutral and the red LED indicates full forward and full reverse.

Troubleshooting Guide

Symptom	Solution
Steering servo operates but the motor does not run	Programming is not complete. Re-program the ESC by following the programming instructions. Speed control connected to receiver incorrectly. Refer to manufacturers instructions. Motor defective. Test motor independently, repair or replace as needed. Low batteries. Charge as needed. Overload Protection enabled. Check motor and connections.
Steering and Motor do not function	Receiver wired incorrectly. Check polarity and orientation of control plugs. Radio inoperational. See radio instruction manual. Batteries discharged. Recharge or replace.
Full speed not attainable	Transmitter adjusted improperly. See radio instructions for proper adjustment. ESC programmed incorrectly. Reprogram.
Motor slows but will not stop	Throttle trim may be set improperly. See radio inst. manual. ESC program does not match transmitter. Re-program ESC.
Reduced radio range / Interference	Motor capacitors broken/missing. Repair or replace. Motor noise. Move receiver further away from ESC, motor and wiring. Transmitter batteries low. Replace batteries. Interference transmitted on or near radio frequency. Relocate or change radio channels (see manufacturers instructions).

Warranty Information

Dynamite® warranties this product to be free from defects in materials and workmanship form the original date of purchase. The Tazer 15T will be repaired or replaced free of charge for the first 365 days upon inspection by the Horizon Service Center. This warranty is limited to the original purchaser of this electronic speed control and is not transferable. This warranty will not cover ESC's that have been modified, misused or serviced by an unauthorized service center. Equipment returned for inspection after the first 365 days, will require a payment of $9.95 to cover shipping and handling for warranty repair or replacement.

The Dynamite Tazer 15T does not cover consequential, incidental or collateral damage under any circumstances.

Issues that will void your warranty include, but are not limited to:

1. Reverse polarity damage caused by connecting the battery pack backward, plugging battery into the motor connector wires, etc.
2. Alteration or removal of the battery plug or connectors.
3. Frayed or shorted wires due to misuse or poor maintenance.
4. Use of less than 4 cell (4.9 volts) or more than 7 cell (8.4 volts) battery packs.
5. Damage due to tampering with any of the electronic components
6. Damage caused by water, moisture or foreign objects (e.g. dirt, dust. etc.)

If you have any question please call us toll free at 1-877-504-0233

If your Tazer 15T is in need of inspection or repair, please ship it freight prepaid to:

Horizon Service Center
AttN: Dynamite Service
4105 Fieldstone Road
Champaign, Illinois 61822

Please include a completed Service and Repair Center Checklist from our website at www.horizonhobby.com, or Include the following information with your Tazer 15T:

- Full Name
- Mailing address
- Daytime phone number
- Original Purchase Receipt
- Item number and description of products included in the package
- Description of product concerns/issues
- Payment information including Credit Card number, cardholder name as it appears on the card, and expiration date.

Non-Warranty Repairs

Should your repairs cost exceed 50% of the retail purchase price, you will be provided with an estimate advising you of your options. Money orders will be accepted for the amount of the service, repairs and associated shipping and handling.

Distributed exclusively by Horizon Hobby Inc.
www.horizonhobby.com