



# **DUCATI 999<sub>R</sub>**

**TESTASTRETTA**

**1/5 FM-1e DUCATI 999R R/C EP MOTORBIKE**



Official Product under license of Ducati Motor Holding S.p.A.

**No.6528-F**

## **INSTRUCTION MANUAL**

### **WARRANTY**

Thunder Tiger Corporation guarantees this model kit to be free from defects in both material and workmanship. The total monetary value under warranty will in no case exceed the cost of the original kit purchased. This warranty does not cover any components damaged by use or modification. Part or parts missing from this kit must be reported within 60 days of purchase. No part or parts will be sent under warranty without proof of purchase. To receive part or parts under warranty, the service center must receive a proof of purchase and/or the defective part or parts. Should you find a defective or missing part, contact the authorized Thunder Tiger Service/Distributor nearest you. Under no circumstances can a dealer or distributor accept return of a kit if assembly has started.

# INTRODUCTION

Thank you for the purchase of this Thunder Tiger product. You should enjoy many hours of trouble free use from this advanced R/C product. Thunder Tiger strives to bring you the highest level of quality and service we can provide. We race and test our products around the world to bring you state-of-the-art items.

We offer on-line help 24-7 on our [www.acehobby.com](http://www.acehobby.com) forum and our product specialists are ready to take your call if you have any technical questions. Please read all instructions and familiarize yourself with the systems and controls of this product before operating. Have fun and enjoy the exciting world of R/C.

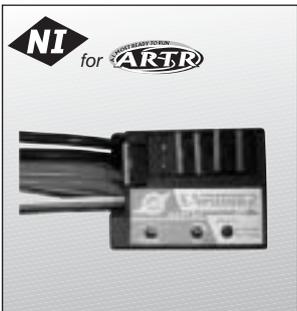
# ITEMS REQUIRED FOR OPERATION



2-Channel Surface or Pistol Radio with 1high Torque Servo. (Purchase separately with ARTR models)



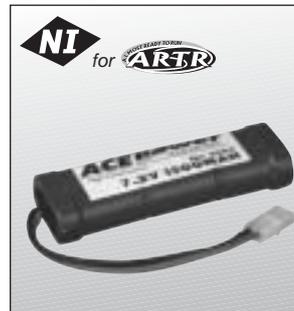
Screw Drivers, Lexan Body Reamer, Hobby Knife, Lexan Scissors, Rubber Bands.



Electric Speed Controller  
(Purchase separately with ARTR models)



Motor (Purchase separately with ARTR models)



Ni-Cd Battery Pack  
2904AC 7.2V 1500mah w/Tam  
2905AC 7.2V 1800mah w/Tam



Power Charger (AC/DC Charger)  
2605AC 110V/7.2-8.4V  
2606AC 230V/7.2-8.4V (2P)  
2607AC 230V/7.2-8.4V (3P)

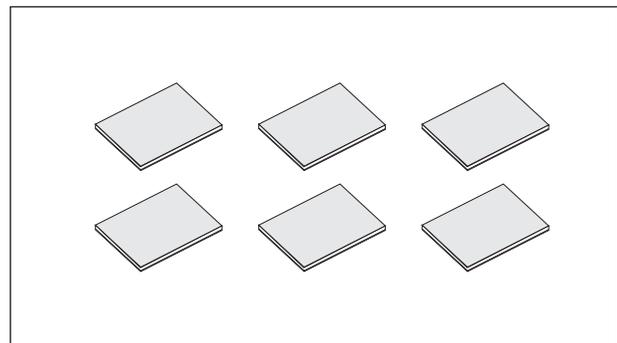
# TOOLS INCLUDED



Hex Wrench Set

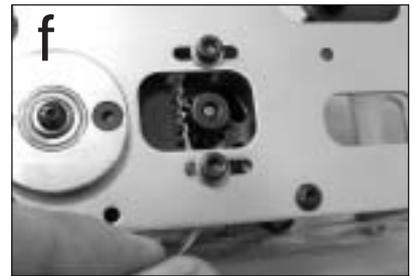
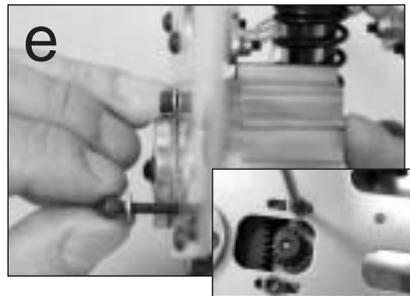
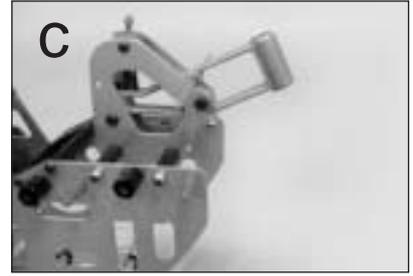


4-Way Wrench



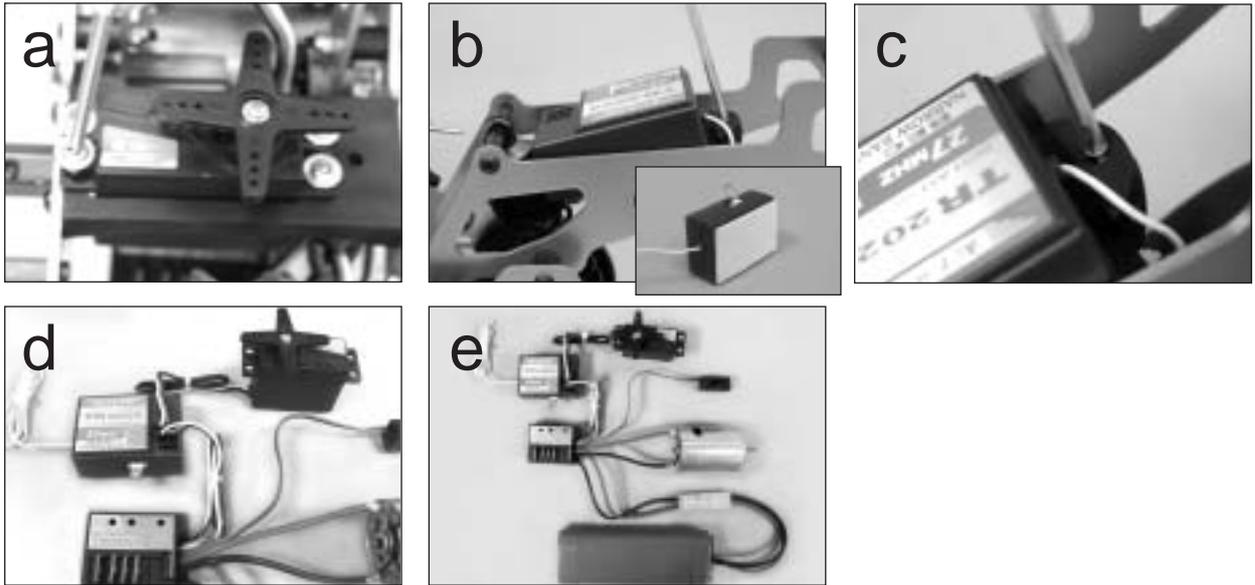
Double Sided Tape

# 1 INSTALLING THE ELECTRIC MOTOR AND ELECTRIC SPEED CONTROLLER skip if already assembled



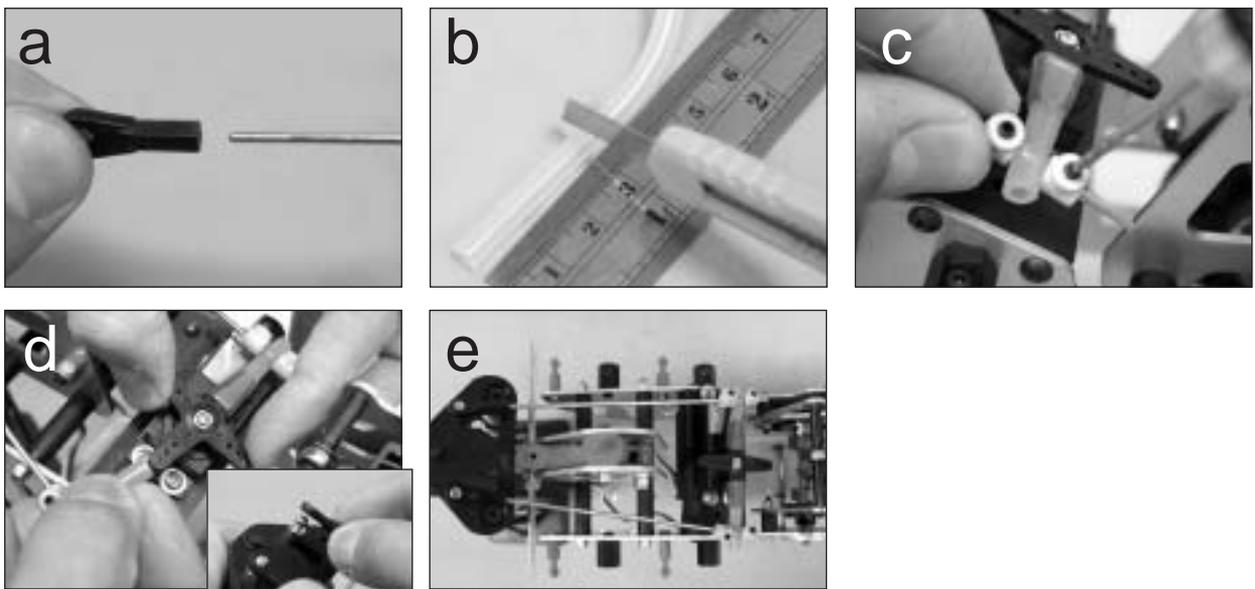
- a.** Remove the bike's front suspension by disassembling the "E" clips on the steering shaft.
- b.** Remove the shaft that holds the front steering mount and front fork shocks.
- c.** Lift the entire set and remove it from the motorbike's assembly.
- d.** Tighten the motor pinion with hexagon screw
- e.** Install the motor mount and motor unit onto the side chassis by treading two internal hexagon screws through the washers and motor mount.
- f.** Use a thin sheet of paper and insert it between both gears to set proper gear mesh.
- g.** Tape the E.S.C. to the top of the battery tray by using the supplied double-sided tape.
- h.** Install the E.S.C. switch onto the left side of the chassis frame by using a piece of appropriated double-sided tape
- i.** Solder the E.S.C. black/red wire to the terminals on the motor. (Note: The red wire to the positive terminal, black wire to the negative terminal)
- j.** Reassemble the front suspension assembly.

## 2 INSTALLING THE RADIO GEAR skip if already assembled



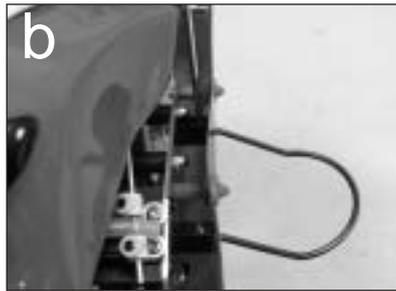
- a.** Mount the steering servo on the servo tray. (Note that its output shaft should be centered between the chassis frames.)
- b.** Install the receiver on the receiver tray by using double-sided tape.
- c.** Thread the receiver antenna/wire through the antenna tube, and then press-fit the antenna tube on the receiver tray
- d.** Properly plug the connection/wire into the receiver: steering servo connector/wire into the channel 1 slot, BEC power connector/wire into channel 2 slot.
- e.** The assembly diagram for the entire radio control system is shown.

## 3 INSTALLING THE STEERING SERVO LINKAGE skip if already assembled



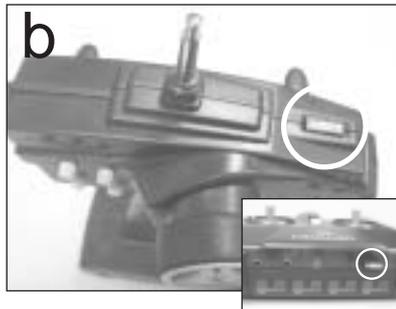
- a.** Install the thread part of the linkage rod into the plastic tie-end.
- b.** Locate the supplied silicone fuel tube in the bag, and then cut two short tubings as the flexible and extended linkage arm. (The silicone tubing is approximately 3cm long for each)
- c.** Assemble the linkage rods with the short silicone tubings, and set the screw collars tightly compressed against the tubing.
- d.** Put the tubings over the steering servo horns and press the tie-end into the standoff ball on the steering mount to complete the steering system.

## 4 INSTALLING THE SIDE GUARD WIRE



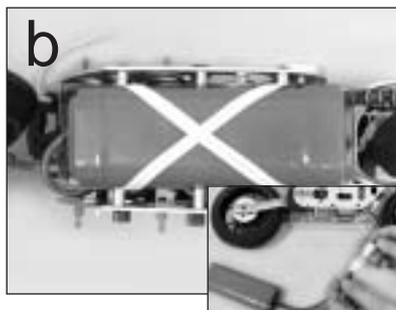
- a.** Use a hexagon driver to loosen the screws of the mount on the side of the body frames.
- b.** Install the supplied side guard wire onto the mount.

## 5 PREPARING THE RADIO



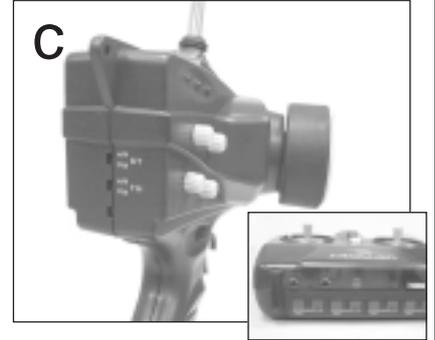
- a.** Install the antenna into transmitter
- b.** Check the frequency printed on the transmitter crystal.
- c.** Check the frequency printed on the receiver crystal, and make sure it matches with the transmitter crystal. Make sure no one will operate on the same frequency when you are. When there is a radio glitch, it will most likely be caused by improper crystal, damaged crystal, or people operating on the same frequency.

## 6 OPERATION/RADIO BATTERY INSTALLATION



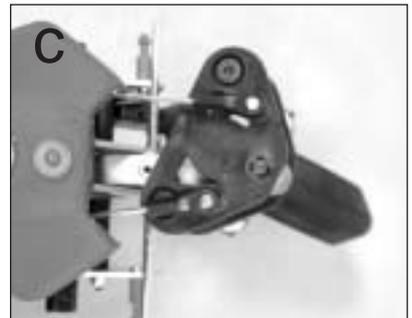
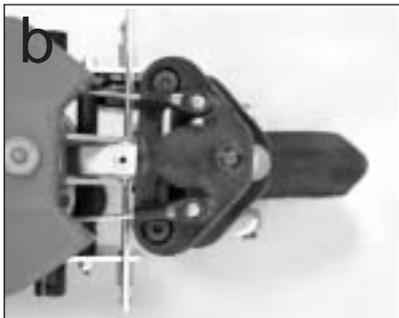
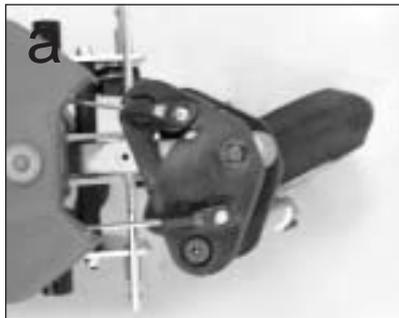
- a.** Install 8 AA size alkaline batteries into the transmitter.
- b.** Secure the Ni-Cd battery pack (not included) into the battery tray with supplied rubber bands

# 7 RADIO OPERATION



- a.** When turning radio on, first turn on the transmitter.
- b.** Then, turn on the receiver. When turning off, first turn the receiver off, then the transmitter off.
- c.** To reverse the functions of servos, use the small, white servo reverse switches located on side of the pistol transmitter (or the inset servo reverse switches located at the bottom of the stick transmitter). To trim the servos on pistol transmitter, use the trim switches on side of the steering wheel (the ST. trims steering, and the TH trims throttle/brake). On a stick transmitter, the trim levers are located accordingly around the sticks.
- d.** For more details, please check the transmitter instruction manual.

# 8 OPERATING RADIO STEERING FUNCTION



Due to its unique steering system, the following advises for the controlling should be noted,

- a.** First, flip the steering servo reverse switch (see 7c). The steering is basically accomplished by changing the center of body gravity, not the turning of the forks. With the radio transmitter and receiver on, turn the steering wheel/stick to the right. The body leans towards the right side (The front tire/wheel should turn left oppositely), the chassis follows, leaning to the same side. If not, flip the steering servo reverse switch again.
- b.** Return the steering wheel/stick to neutral. The front tire/wheel should point straight forward.
- c.** Turn the steering wheel/ stick to the left. The front tire/wheel should turn right oppositely.

# 9 ADJUSTING ELECTRIC SPEED CONTROLLER



Before operating your model, you have to set to either NEUTRAL or HIGH SPEED position of the electric speed controller prior running the motor.

## a. Neutral Setting

- Hold on your R/C model carefully. (Always keep the wheels off the ground when checking the operation of the radio equipment)
- Connect the wire to the battery pack
- Turn on the transmitter, and then switch on the electric speed controller afterwards.
- Set up the throttle of the transmitter (trigger/stick) to the neutral position and the throttle trim knob/lever in the middle.
- Find the supplied tuning wand in the package or a small screwdriver.
- Insert the wand into the adjustment hole on the electric speed controller, and slowly adjust the "Neutral" screw (potentiometer) on the unit until the green led indicator goes out. Then the motor should stop at the neutral point.

## b. High Speed Setting

- Hold on your R/C model carefully. (Always keep the wheels off the ground when checking the operation of the radio equipment)
- Give the throttle of the transmitter (trigger / stick) to the full position.
- And then adjust the H.S. "High Speed" (potentiometer) screw to the position where "High Speed " is commanded from your transmitter and the led indicator turns into red constantly.
- You may adjust the throttle travel to customize the best control to meet your requirement by tuning the "High Speed" position.

# 10 BATTERY CHARGING



- Make sure that the battery pack is completely discharged prior to charging. Discharging the battery pack by running the electric motor until it slows down.
- For best results, let the battery pack cool before charging. Heat may prevent the battery from charging to full capacity and also decreases the performance of the battery.
- Once the battery is ready to be charged, first plug the AC charger into the outlet of AC power source, then plug your battery pack in the charger.
- Continue to monitor the battery as it is being charged. As soon as the battery is fully charged, disconnect the charger from the battery.

# 11 OPERATION TIPS

1. Hold the transmitter with one hand, finger on throttle,
2. With the other hand hold the bike. And then give it throttle while you push the bike a little. The bike goes away in a straight line. Then you reach for the steering control and the fun begins!
3. When cornering, slow down the speed to make the turn easier.
4. If the bike falls due to loss of balance, the side guard wire will support and prevent the body from scraping.
5. To continue bike's running, technically give it a slightly more throttle to help the bike back to the balanced running.

**(Note: Do not give the throttle too much to avoid the spin.)**

# 12 MAINTENANCE AFTER RUNNING

1. Always turn off the radio system and unplug the battery pack when not using the bike.
2. Remove the sand, dirt, and any other elements completely from the bike before you store it.

## WARNING

Thank you for purchasing a Thunder Tiger Product. Please read all instructions thoroughly before operation.

1. This product is not a toy. It is a high performance model product. It is important to familiarize yourself with the model, its manual, and its construction before assembly or operation.
2. Do not operate model products in rain, on public roads, near crowds, near airport, or near areas with restricted radio operation.
3. This product, its parts, and its construction tools can be harmful to your health. Always exercise extreme caution when assembling and/or operating this product. Do not touch any part of model which rotates.
4. Check your radio frequency with the proper operating frequency of the area or country. Always check to see if there are any modelers operating on the same frequency as your are. Also, check your radio for proper operation before operating a mode.
5. Improper operations may cause personal and/or property damage. Thunder Tiger and its distributor have no control over damage resulting from shipping, improper construction, or improper usage.
6. Thunder Tiger assumes and accepts no responsibility for personal and/or property damages resulting from the use of improper building materials, equipment and operations. By the act of assembling or operating this product, the user accepts all resulting liability. If the buyer is not prepared to accept this liability, then he/she should return this kit in new, unassembled, and unused condition to the place of purchase.

