

# 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

The Thunder Tiger EB-4 S3 was designed as a whole new off-road 4WD nitro-racing buggy, especially on a high-speed and bumpy off-road track. There's no doubt that the innovation would be the very first priority of our design team. We have set this buggy far ahead of the current form of existing buggy design in the market in terms of the future designing trend. The new EB-4 S3 comes with some totally new settings that have never been applied on 1/8th scale nitro buggy before, such as the super low center of gravity, radical engineering of a car construction and more than innovative, good looking and high performance suspension. This is a look into the future for 1/8th scale cars and the future is here with Thunder Tiger. However there is no compromise between the innovation and quality. Thunder Tiger guarantees you should have many hours of trouble free use from this R/C product. We race and test our products around the world to bring you state-of-the-art R/C products.

CAUTION

#### Thank you for purchasing a Thunder Tiger Product.

Please read all instructions and familiarize yourself with the products and controls 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. A child operating under the supervision of the adults is necessary.
- 2. Always keep this instruction manual ready at your hand for your assembling and operating reference, even after completing the assembly.
- 3. Make sure all the screws are properly tightened and all the parts are checked after running the car for a long period of time.
- 4. For the best performance, it is important to make sure all the moveable parts work free without binding.
- 5. Do not operate model products in rain, on public roads, near crowds, near airport, or near areas with restricted radio operation.
- 6. Always keep fuel away from heat and open flame. Only operate in open, well-ventilated area. Store fuel in cool, dry area. Keep the fuel bottle cap tightly closed. Clean up any leak or excess fuel before starting the engine.
- 7. 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 the model that rotates.
- 8. 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 yours. Also, check your radio for proper operation before operating a model.

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## IMPORTANT NOTES & WARNING

## FUEL SELECTION

- 1. Choose a fuel from a reputable, brand name company that is approved for car/truck use. Do not use airplane or boat fuels in your car/truck. Choose methanol based model engine glow fuel that has a nitro content in the range 10%-30% and 5% to 18% caster/synthetic oil content for lubrication. Lower nitro percentages will generally result in a cooler engine running temperature and therefore last longer before needing a rebuild; cooler-running engines also generally produce less power. 20% nitro is the most widely used fuel.
- 2. Fuel color is for identification purpose only and is not important to performance or durability of your engine.
- 3. Be careful. If the tank overflows it might get on your radio gear or on your brakes and it may create an unsafe driving situation. Always keep your fuel bottle closed when not in use.
- 4. Do not dispose of fuel or empty fuel containers in a fire. It may possibly cause fire or explosion.

### ENGINE



- 1. For proper engine break-in procedure, please refer to the manual of your engine.
- 2. Never run your vehicle without the air filter .If the vehicle will be operated in an area with fine dust, use filter oil or caster oil on the air filter element. It is important that the foam is only moist to trap dirt and allow air passage. With the foam too wet, limited air can pass through; therefore, limiting engine performance.
- 3. The parts around engine could be dangerously hot after operation. Do not touch it without any protection!



When turning radio on, first turn on the transmitter and extend the transmitter antenna.
Then, turn on the receiver. When turning off, first turn the receiver off, then the transmitter off

## **FIRST AID**

- 1. If you drink nitro fuel by accident, immediately drink large quantities of water and try to induce vomiting. Consult with physician right after then.
- 2. If the nitro fuel gets into your eyes, rinse them well with water. Consult with physician right after then.
- 3. If the fuel gets onto your skin, wash it well with soap and water.

## WARNING

- 1. 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.
- 2. 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.











#### Hunder Iger





















#### Hunder Iger



































- Adjust the collars so the brakes work smoothly.
- If the brake applies too much or not enough, adjust the adjustment collars accordingly.
- Or if available on the transmitter, adjust the brake endpoint.

























SET UP Maxsimun Installation: 5mm 1mm 3.Caster Adjustment(Front): Adjust the caster angle by changing Caster 2mm the plastic clips (caster shims) in the front upper hinge pin. Adjustment (Front) 🕽 3mm **Steering Characteristics** Clips behind upper arm Sharper corner-in, slower corner-exit More Caster (Note) Clips in the front of upper arm Slower corner-in, faster corner-exit Less Caster Hint: Using a needle nose pliers to install or reinstall the clips makes the adjustment much easier. Note1: When putting the clips behind upper arms, cut the ear of the clips to avoid interfering with steering slider. Note2: Ensure you make equal adjustments on both left and right sides of the car. More Caster Less Caster 3mm 2mm 1mm 1mm shim for spare use only Front Anti-Squat 4 Front Anti-Squat: The Front Anti-Squat angle can be adjusted Adjustment using the different plastic eccentric bushings in the front suspension plate. Please refer to the table below. Eccentric Total Characteristics **Bushing** 6° FF-1 Decreases steering response. Good handling on bumpy tracks. 7° FF0 FF1 8° Increases steering response. Good handling on smooth tracks 6°~ 8° Note: Ensure you make equal adjustments on both left and right sides of the car.







	SET UP				
Camber Adjustment (Rear)	7.Camber Adjustme adjusting the leng	REAR CAMBER			
PD0399 ALUM TURNBUCKLE WRENCH, 5mm	Length(L) Making longer. Positive camber. Making shorter. Negative camber.	Steering Cl Decreases Increases t	haracteristics traction when entering corr raction when entering corne	ners.	
	Note1: You can a positioning the rear in the shock tower information, please separate sheet. Note2: Ensure you left and right sides of				
Ride Height (or Droop) Adjustment	8.Ride Height (or Droop) Adjustment: The front/rear ride height can be adjusted by screwing in or unscrewing the setscrews in the lower arms.				
	SetscrewsRideScrewing inBecoUnscrewingBeco	height mes lower mes higher	Characteristics Less steering, good handl on smooth tracks More steering, good handl on rough tracks	ing ling	
	FRONT FRONT FRONT FRONT FRONT REAR 3.8mm on the bottom Initial Setting 3.9mm on the bottom				
Ackerman Adjustment	9.Ackerman Adjustment: Adjust the Ackerman angle by linking the front steering rods into the different holes on the steering slider.				
	Steering tie-rod mounting holes Characteristics   Forward holes Makes the steering response milder Suitable for high speed race way		Ackerman Position		
	Rearward holes Note: Ensure you m right sides of the ca	U RO			



## SET UP SHEET



Name of Driver	Date	Track	Radio	Servo	Engine	Plug
Fuel	Spur/ Clutc	h Bell	Wheels	Tires	Inner	Muffler

## SHOCKS

(Shock Oil Brand:)						
	Front	Rear				
Shaft Type	Std Other:	Std Other:				
Piston						
Piston Ball	□0 □1 □2	□0 □1 □2				
Oil	#	#				
Spring	Blue: Softer(3.2lb)	Blue: Softer(2.7lb)				
	Red: Average(4.3lb)	Red: Average(3.2lb)				
	Black: Harder(5.2 lb)	Black: Harder(4.5lb)				
Spacer	mm	mm				

#### SHOCK MOUNT POSITION

#### **Arm Mounting**





#### **Tower Mounting**





#### FRONT ARM MOUNTING

|--|--|

DIFF. OIL					
	Front	Center	Rear		
Oil	#	#	#		

TOE ANGLE					
Fr	ont	Rear			
°	mm	□ 1 , □ 1.5 , □ 2 , □ 3			



## **REBOUND STOP**

Front	Rear
mm	mm



**CAMBER ANGLE** 

F	ront	Rear	
°Upper	_mm,		
°Lower	mm	••	mm





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